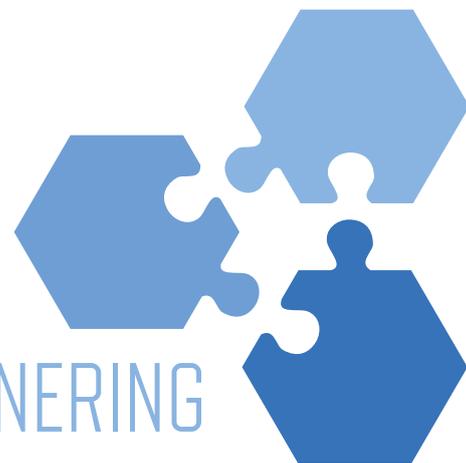


EUROPEAN CHEMISTRY PARTNERING



# 3<sup>rd</sup> European Chemistry Partnering

26 February 2019, Frankfurt, Germany

## You can not find a particular profile?

**The book contains all the profiles of companies that have provided their profile until release of this version. All participants of the 3<sup>rd</sup> ECP will receive a digital version of the book with all profiles as free download following the event.**

### Photography and Video Policy

**Photo and film recordings are made at the European Chemistry Partnering used on the event website, marketing materials and Social Media.**

**By registering and participating in the European Chemistry Partnering, you agreed the Terms & Conditions which includes to such photo and film recordings.**

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Frankfurt am Main, 2019

### **3<sup>rd</sup> European European Chemistry Partnering**

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# Table of Content

<b>Organizer &amp; Sponsor</b>	<b>4</b>
<b>Regional Partner</b>	<b>5</b>
<b>Supporters</b>	<b>6</b>
<b>Mediapartner</b>	<b>7</b>
<b>Welcome</b>	<b>9</b>
<b>Agenda</b>	<b>11</b>
<b>Pitch Schedule</b>	<b>13</b>
<b>Chemistry &amp; Art</b>	<b>18</b>
<b>KeyNote</b>	<b>19</b>
<b>Organizational Details</b>	<b>20</b>
<b>Floor Plans</b>	<b>21</b>
<b>Workshops &amp; Panels</b>	<b>26</b>
<b>Closing Session</b>	<b>30</b>
<b>Inversed Pitches</b>	<b>34</b>
<b>Pitching Company Profiles</b>	<b>44</b>
<b>Exhibitor Profiles</b>	<b>128</b>
<b>ECP Sponsors</b>	<b>141</b>
<b>ECP Friends</b>	<b>148</b>

# Organizer & Sponsor

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# Regional Partner



## THE FOLLOWING REGIONAL PARTNERS ARE PRESENT WITH A BOOTH



Airport Club Frankfurt is one of the most important business clubs in Europe, and with good reason: We know exactly how to make our members' lives easier and more enjoyable. Personalities from home and abroad, from the worlds of business, academia, culture and politics, all meet at the Airport Club and benefit from numerous privileges and services, specially tailored to their requirements.

We are a strong insurer and we shape the ways to a healthiness.

We daily assume the responsibility for our insured people and at the same time we give support around the healthiness.

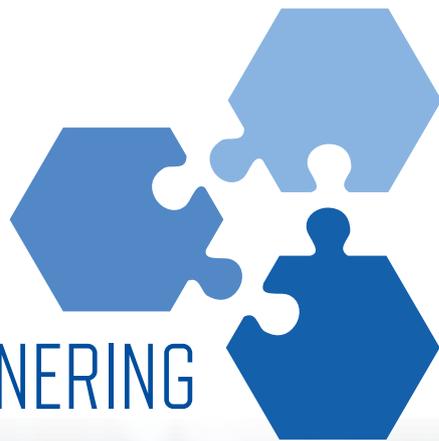
# Supporters



# Mediapartner



# EUROPEAN CHEMISTRY PARTNERING



4<sup>th</sup> ECP 27 February 2020  
5<sup>th</sup> ECP 23 February 2021  
in Frankfurt

 Start-ups & SME

 Industry

 Investors

[www.european-chemistry-partnering.com](http://www.european-chemistry-partnering.com)

# Welcome

## DEAR FRIENDS OF CHEMICAL INNOVATION

The first time it's an innovation, the second time it becomes a tradition and by the third time it's already an institution. Does this also apply to the European Chemistry Partnering?

Well, if this, the 3<sup>rd</sup> ECP really is already an institution, then it only came about because of you! You are all friends of the ECP. You all helped to breathe life into this new event format "Partnering in and around Chemistry."

This really gives me great pleasure. You see, at the beginning, just after the 1<sup>st</sup> ECP – some people confided in me that they thought I was not quite right in the head – saying "We already have so many events."

Events? Yes, we have events – I said, but nothing like the ECP, with Speed Dating to create new ideas and innovations.

So, what are the new developments here at the 3<sup>rd</sup> ECP?

Your attendance today is visible praise that we - my team and I – gladly, no, even 'very gladly' accept. At the same time we see it as your commitment to us, because only those who develop themselves remain really true to themselves. For that reason I am very happy to announce the following innovations for the 3<sup>rd</sup> ECP to you:

### 1. Workshops

Our sponsors and partners invite you to their one-hour workshops on very topical topics.

### 2. Inversed Pitches

Some of the biggest and greatest from the industry will present themselves in 15-minute lectures, the so-called 'Inversed Pitches'.

### 3. Major Topics

Together with our sponsors and partners, we have formulated inspiring interdisciplinary topics: Water & Chemistry, Energy & Chemistry, Wood & Chemistry and Digitization in Chemistry.

### 4. More Partnering

You have already identified it: Due to very high demand from you, our visitors and participants, we start with the partnering at the earlier time of 9 o'clock.



**Dr. Holger Bengs,**  
**CEO of BCNP Consultants GmbH,**  
**is initiator of the**  
**European Chemistry Partnering.**

And: now nobody need ever again lament that he missed something.

### 5. Video

The Pitches and the Inversed pitches will be filmed and recorded, with the consent of presenters, and then made available to all participants on a new ECP platform.

What a step into the future! These videos are your business boost – that's guaranteed.

Take full advantage of the day!

Yours Sincerely,

Holger Bengs, The guy with the orange tie.

PS ... and: Please come back again!

Save the dates

**27. February 2020** at the 4<sup>th</sup> European Chemistry Partnering. [www.ecp2020.com](http://www.ecp2020.com)

and before that at the

2<sup>nd</sup> ECP Summer Summit, on **26 September 2019**, in Henkel's Headquarter in Düsseldorf, Germany

# 2<sup>nd</sup> ECP Summer Summit 2019

European Chemistry Partnering



**Düsseldorf**  
**26 September 2019**



**BCNP**  
Consultants

# Agenda

## Tuesday, 26 February 2019

9:00	Registration incl. Onsite Registration Start of Exhibition and Partnering – Small Breakfast
10:00	Welcome <b>Dr. Holger Bengs</b> , BCNP Consultants GmbH, Initiator of the European Chemistry Partnering
10:10	Key Note <b>Dr. Gerhard Dust</b> , Managing Director, PolyCare Research Technology GmbH & Co. KG
10:50	Introduction: Pitches. Partnering. Logistics. <b>Tobias Kirchhoff</b> , BCNP Consultants GmbH
10:55	Motivational Speech <b>Dr. Michael Brandkamp</b> , Managing Director, High-Tech Gründerfonds Management GmbH
11:00	Parallel Pitches, Partnering, Workshops and Exhibition a. Schedule for Pitches (6 minutes, 12 minutes or 15 minutes, respectively) – more than 100 Pitches from Chemistry Start-ups, Organizations and Industry  These are the topics of the presenting companies Analytics, Fine & Special Chemicals, Technology & Hardware, Catalysts & Enzymes, New Materials & Nanomaterials, Pharma & Medtech, Services & R&D  These are our this year's interdisciplinary topics 1. Digitalization in Chemistry                      4. Energy & Chemistry 2. Water & Chemistry                                5. 3D Print & Chemistry 3. Wood & Chemistry First Time Big Companies will present themselves (Inversed Pitches) – already registered: BASF, Clariant, DSM, Haldor Topsoe, Merck, Nouryon, Sanofi, Thermo Fischer Scientific, UPM  b. Schedule for Partnering (20 minutes) – more than 2.000 Partnering Meetings c. Schedule for Workshops – at least 5 Workshops d. Exhibition – approx. 50 booths
17:00	Video report about the day
17:05	Announcement 2 <sup>nd</sup> ECP Summer Summit <b>Dr. Paolo Bavaj</b> , Head of Corporate Venturing, Adhesive Technologies, Henkel AG & Co. KGaA
17:07	Closing Session Panel discussion “New Plastics Economy” Panel: – <b>Friedrich Barth</b> , Managing Director, ISC <sub>3</sub> – International Sustainable Chemistry Collaborative Centre – <b>Fernando J. Gómez</b> , Ph.D., Head of Chemistry and Advanced Materials Industries, World Economic Forum – <b>Professor Magnus Nydén</b> , Global Chief Scientist, Nouryon Chemicals Holding B.V. – <b>Daniella Russo</b> , CEO, Think Beyond Plastics, Inc  Moderator: <b>Dr. David Eckensberger</b> , Head of International Affairs, Hessen Trade & Invest GmbH
17:50	Final Remarks <b>Friedrich Barth &amp; Dr. Holger Bengs</b>
17:55	Get Together
20:00	End

# The future needs experience BIOTECHNOLOGY AND LIFE-SCIENCES WORLD WIDE

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## NEXT WORKSHOPS

**What? From Research to Market (1 day)**

Pitfalls in early phases, project plans, robustness of processes, scale-up for commercial production, cost competitiveness, demands of regulatory, launch scenarios

**When?** 13. June 2019                      7. November 2019  
14. June 2019                            8. November 2019

**Where?** Berlin or Potsdam

**ybe**  
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# Pitch Schedules

# Pitch Schedule – Room Stratus, Level 1

Time	Category	Sub-Category	Company
11:30 - 12:30	<b>WORKSHOP</b> Additive Manufacturing. The Hessian point of view. Hessen Trade and Invest		

13:00	Inversed Pitch		Merck KGaA
13:15	Inversed Pitch		Sanofi-Aventis Deutschland GmbH
13:30	Inversed Pitch		Haldor Topsoe A/S
13:45	Inversed Pitch		UPM GmbH
14:00	Inversed Pitch		Clariant International Ltd.
14:15	Inversed Pitch		BASF Venture Capital
14:30	Inversed Pitch		DSM Innovation Center
14:45	Inversed Pitch		Nouryon
15:00	Inversed Pitch		Thermo Fischer Scientific

15:30 - 16:30	<b>WORKSHOP</b> Accelerators as innovation vehicles for chemistry Go Silicon Valley e.V.		
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# Pitch Schedule – Room Solar, Level 1

Time	Category	Sub-Category	Company
11:30 - 12:30	<b>WORKSHOP</b> Digitization in the chemical industry: opportunities and risks for companies and employees Vereinigung Chemie und Wirtschaft - VCW		

13:00	Digitalization	Supply chain, manufacturing, blockchain	ARXUM Business GmbH
13:06	Digitalization	Online platform	chembid GmbH & Co. KG
13:12	Digitalization	Marketplace, negotiation, instant deal	CheMondis GmbH
13:18	Digitalization	Marketplace, research equipment, technical services	Clustermarket Ltd.
13:24	Digitalization	Process digitalization, big data, process automation	DataHow AG
13:30	Digitalization	Smart, augmented, mobile	Gemsotec bvba
13:36	Digitalization	Sensor systems for sprays	AOM-Systems GmbH
13:42	Digitalization	Remote laboratory software	Synthian Ltd.
13:48	Digitalization	Carbon Monoxide, Electrification	Digital Hub Mannheim/Ludwigshafen
14:00	Digitalization	Industry 4.0, smart data analytics	Intelligent Data Analytics GmbH & Co. KG
14:06	Digitalization	Digitization, smart paint factory	ORONTEC GmbH & Co. KG
14:12	Digitalization	Supplier qualification platform	Chemsquare GmbH
14:18	Digitalization	Panel Discussion	The Road Ahead: Digital Chemistry
14:42	New Materials & Nanomaterials	Biopolymers, compounds, infrared drying	CompraXX GmbH
14:48	New Materials & Nanomaterials	Flame retardants	Ecoatech GmbH
14:54	New Materials & Nanomaterials	Activated carbons and superactivated	ENVIROHEMP S.L.
15:00	New Materials & Nanomaterials	-	Graphenest, S.A.
15:06	New Materials & Nanomaterials	Nanoprimers, nanocoatings	RadiSurf ApS
15:12	New Materials & Nanomaterials	Functionalized graphene formulations	Sixonia Tech GmbH
15:18	New Materials & Nanomaterials	Polymer nanofoams, high-performance insulation	SUMTEQ GmbH
15:24	New Materials & Nanomaterials	Lamination, textiles, non-woven	Tec Move Innovation GmbH
15:30	New Materials & Nanomaterials	Magnetocaloric, refrigeration, efficiency	MagnoTherm Solutions
15:36	New Materials & Nanomaterials	Assembly, nanotechnology, joining	NanoWired GmbH
15:42	New Materials & Nanomaterials	-	Polycare Researchtechnology GmbH & Co. KG
15:48	Technology & Hardware	Sensors, analytics, fluid characterisation	ILMSENS GmbH
15:54	Technology & Hardware	The sewer network of the future	VARIOKAN Gbr.
16:00	Technology & Hardware	Bioprocess development, mycorrhiza	Evologic Technologies GmbH
16:06	Technology & Hardware	Chemistry, automation, synthesis	Synple Chem AG
16:12	Fine & Specialty Chemicals	Polyolefin Interface Modifiers	Interface Polymers Ltd.
16:18	Fine & Specialty Chemicals	natural flavours & fragrances	4GENE GmbH
16:24	Fine & Specialty Chemicals	Fungal cell factories, natural colorants fermentation	Chromologics ApS
16:30	Fine & Specialty Chemicals	Preservatives, specialty	ChiroBlock GmbH
16:36	Technology & Hardware	Fluid Flows, Simulation, Engineering	dive solutions
16:42	Technology & Hardware	Peptide synthesis, peptides	Sulfotools GmbH
16:48	Technology & Hardware		LIAQAT CORP PVT LT

# Pitch Schedule – Room Sirius, Level 1

Time	Category	Sub-Category	Company
11:30	Catalysis & enzymes	Empowered enzymes	INOFEA AG
11:36	Catalysis & enzymes	Nanoparticles ZnO sulfur absorbent	Catalyco SIA
11:42	Catalysts & Enzymes	Noble Metal Catalyst, Spherical Carbon	Blücher GmbH
11:48	Catalysts & Enzymes	Synthetic biology	Enantis s.r.o.
11:54	Catalysts & Enzymes	Industrial biotechnology	Ingenza Ltd.
12:00	Catalysts & Enzymes	Catalysts polyurethane silicones	Reaxis B.V.
12:06	Catalysts & Enzymes	New microbial selection	Syngulon SA
12:12	Catalysts & Enzymes	CO <sub>2</sub> Utilization, ethylene, shale gas	Southern Research
12:24	Catalysts & Enzymes	Microbial biotech, natural products, dsp	ACIES BIO d.o.o.

13:00  
-  
14:00

## WORKSHOP

Strategic Finance in LifeSciences & Chemistry  
FCF Fox Corporate Finance

14:00	Digitalization	Simulation, quantum computing	HQS Quantum Simulations GmbH
14:06	Analytics	Epigenetics, mass spectrometry, ptm's	EpiQMAx GmbH
14:12	Analytics	Analytical services; surfaces	Inolytix AG
14:18	Analytics	NMR, metabolomics, diagnostics	lifespın GmbH
14:24	Analytics	Lipidomics, lipid analysis, lipid statistics	Lipotype GmbH
14:30	Analytics	Nanoparticle, online, microparticle	Microtrac GmbH
14:36	Analytics	Sustainability, analytical chemistry, nuclear engineering	Green Sports Alliance Japan
14:42	Analytics	Nanomaterials / Porosity / Active Sites	ZetA Partikelanalytik GmbH
14:48	Digitalization	Supply-Chain, Blockchain, Tokenization	Azhos AG
15:00	Services & R&D	Biotechnology, research services	Fraunhofer - IME
15:12	Services & R&D	Technology innovation start-ups	Verhaert New Products & Services NV.
15:24	Services & R&D	Natural Products	AnalytiCon Discovery GmbH
15:30	Services & R&D	Scale-up and downstream processing	Bio Base Europe Pilot Plant
15:36	Services & R&D	C1 bioeconomy, synthetic biology, CCU	b.fab GmbH
15:42	Services & R&D	Flow reactor, photochemistry, scalability	Creaflow BvBa
15:48	Services & R&D	Sustainable, photochemistry, flow	EcoSynth NV
15:54	Services & R&D	Research chemicals, chemistry support	Endotherm GmbH
16:00	Services & R&D	Biocatalysis; enzyme engineering	Enzymaster Deutschland GmbH
16:06	Services & R&D	Financial solution, Start-up, Leasing	Evoscience Leasing GmbH
16:12	Services & R&D	Route scouting, process development & implementation	InnoSyn B.V.
16:18	Services & R&D	Start-up Service	ISC3
16:30	Services & R&D	-	VTT Technical Research Centre of Finland Ltd
16:42	Services & R&D	Artificial Intelligence, process design	Process Design Center GmbH
16:48	Services & R&D	Electrosynthesis, fine chemicals, pharma	ESy-Labs GmbH

# Pitch Schedule – Room Satellit, Level 1

Time	Category	Sub-Category	Company
11:30 - 12:30	<b>WORKSHOP</b> ISC3 Global Start-up Service – supporting sustainable chemistry innovators ISC3 - International Sustainable Chemistry Collaborative Centre		
13:00	Water & Chemistry	Water, technology networking, consulting	Isle Utilities GmbH
13:06	Water & Chemistry	Renewable lithium extraction	Adionics SAS
13:12	Water & Chemistry	Fine bubbles, gas-liquid, wastewater	akvola Technologies GmbH
13:18	Water & Chemistry	Water treatment, P removal, algae	Aquacare Europe BV
13:24	Water & Chemistry	Adsorption, Organic Pollutants	Blücher GmbH
13:30	Water & Chemistry	Cyanobacteria; algae-removal; water-treatment	BlueGreen Water Technologies Ltd.
13:36	Water & Chemistry	Chemical free solutions	CQM Tech Ltd.
13:42	Water & Chemistry	AI, fouling, power ultrasound	Altum Technologies Oy
13:48	Water & Chemistry	UV, LED, AOP	Typhon Treatment Systems Ltd.
13:54	Water & Chemistry	-	VentilAQUA
14:00	Water & Chemistry	Antimicrobial mesh for process fluids	Feindrahtwerk Adolf Edelhoff GmbH & Co. KG
14:06	Water & Chemistry	-	Waterwerx Holding Ltd.
14:12	Water & Chemistry	Water, technology networking, consulting	Isle Utilities GmbH
14:18	Water & Chemistry	-	von Freude
14:24		Technical Adjustment	
14:36	Wood & Chemistry	-	WALKOLUTION - WORK AND WALK
14:42	Wood & Chemistry	Straw to Pulp & Paper	Zel Dün AG
14:48	Wood & Chemistry	High-purity lignin, lignocellulosic sugars	Graanul Invest AS
14:54	Energy & Chemistry	Membranes, polymers, energy storage	Gaia Membranes AG
15:00	Energy & Chemistry	-	Mebius d.o.o.
15:06	Energy & Chemistry	Graphene composites, batteries, shielding	GRAPHMATECH
15:12	Energy & Chemistry	-	Gensoric GmbH
15:18	Energy & Chemistry	-	Volterion GmbH
15:24			kicoat
15:30		Technical Adjustment	
15:36	Pharma & Medtech	Drug discovery, medchem, fragments	CrystalsFirst GmbH
15:42	Pharma & Medtech	Cell screening	Aquarray GmbH
15:48	Pharma & Medtech	Nanoparticles, drug delivery, polymers	DendroPharm GmbH
15:54	Pharma & Medtech	-	denovoMATRIX GmbH
16:00	Pharma & Medtech	Polyoxazolines, controlled reactions	AVROXA bvba
16:06	3-D Print & Chemistry	Bioprinting, Organs-on-a-chip	Black Drop Biodrucker GmbH
16:12	3-D Print & Chemistry	-	D3 Systeme GmbH
16:18	Services & R&D	Software, chemdraw, e lab journal	ADDITIVE Soft- und Hardware für Technik und Wissenschaft GmbH
16:24	Services & R&D	Innovation in Chemistry	Brightlands Innovation Factory BV
16:36	Technology & Hardware	-	LLC IFO Agro
16:42	New Materials & Nanomaterials	New Compounds, Metal Replacement, Cooling	Plastformance GmbH
16:48			Vesch Technologies GmbH

# Chemistry & Art, Roland Føhlisch



Under the heading "Art & Chemistry" I show people how art can be used to turn chemistry (= pure color pigments) into images that have a power on people. Your customers can use this power in their companies in a very targeted way.

So they can achieve certain effects on the participants with pictures that they use in their conference/meeting rooms.

**Roland Føhlisch**

# Key Note Speaker

## **DR. GERHARD DUST**

Dr. Gerhard Dust, born 1952 in Soest, Germany, started his career in the construction business. After service in the Luftwaffe and graduation from university he followed his family tradition of working in the book industry.

Being COO of Libri 1991-2008 he earned an international reputation for the analysis, design and implementation of high level automated storage and distribution systems.

During these years he was also founder and general manager of the book transport company BOO-Xpress, member of the Board of Top Holding AG and chairman of the International Group of Book-Distributors.

2010 under the impression of the earthquake in Haiti he founded PolyCare.



Dr. Gerhard Dust  
Managing Director  
PolyCare Research Technology GmbH & Co. KG

# Organizational Details

## Important and less important things from A to Z

### Cloakroom

Our cloakroom will be staffed till the end of the Get together.

### First Aid and freshen up

If you need a patch or if you want to fresh yourself up, you can find some items in the restrooms.

### Internet

There is free WiFi sponsored by Hessen Trade and Invest GmbH on all levels, so that you can check emails or your trip back home.

### Power (Adapter)

If you need to charge your laptop or mobile phone you can find power sockets at the registration desk. The ECP conference team will take care of your device while charging. There are also adapters for US and UK.

### Smoking Area

There are two Smoking Areas:

1. On Level 4 on the terrace
2. On Level 0 in front of the building

### Social Media

Follow us on Twitter @EuChemPa

Use the hashtag #ecp19 to tweet about the event.

Follow us on our Social Media Accounts

- Twitter: @Euchempa
- Facebook: [www.fb.me/euchempa](http://www.fb.me/euchempa)
- Instagram: [www.instagram.com/euchempa/](http://www.instagram.com/euchempa/)
- LinkedIn Group: <https://www.linkedin.com/groups/8675175>
- Youtube: [t1p.de/euchempa](http://t1p.de/euchempa)

### Taxi

There is a taxi rank if you leave the venue building to your right. There should be taxis all the time. If you want to play safe, please call +49 69 23 00 01 and order your own taxi.

## Pitches Organization

### 6 Minutes

The company pitches will last 6 minutes including preparation time.

There are a few number of 12 and 15 minutes pitches for more mature companies.

### Card, Yellow

With one minute left the moderator will rise the yellow card.

### Speaker's Corner – The blue Tables

You can find here presenting companies right after their pitches.

**#ecp19**



is the official  
hashtag on Twitter

# Floor Plans

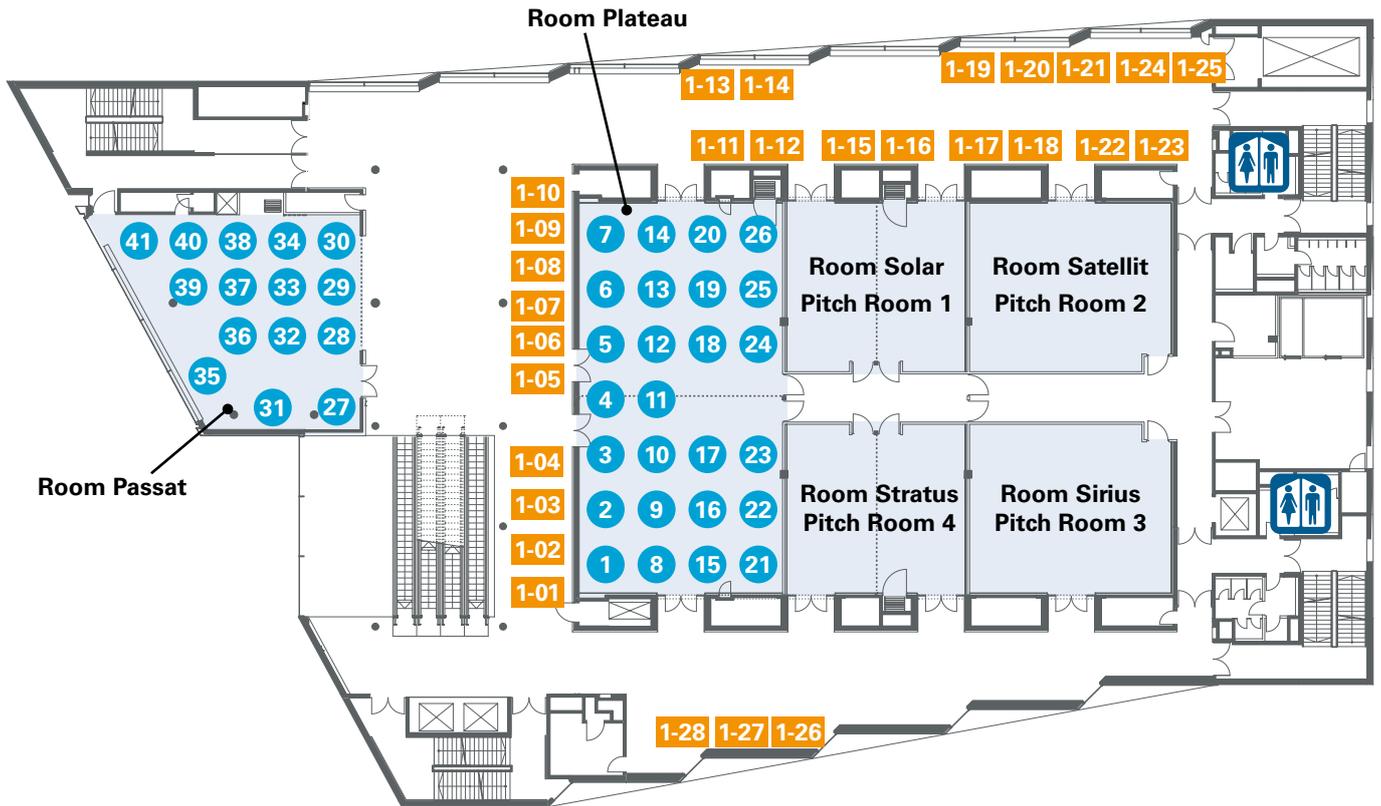
# Level 0: Pitch & Exhibition Area



 Exhibitors

Booth	Company
0-01	Chemistry & Art
0-02	AOK Hessen
0-03	Airport Club Frankfurt

# Level 1: Pitch, Partnering & Exhibition Area



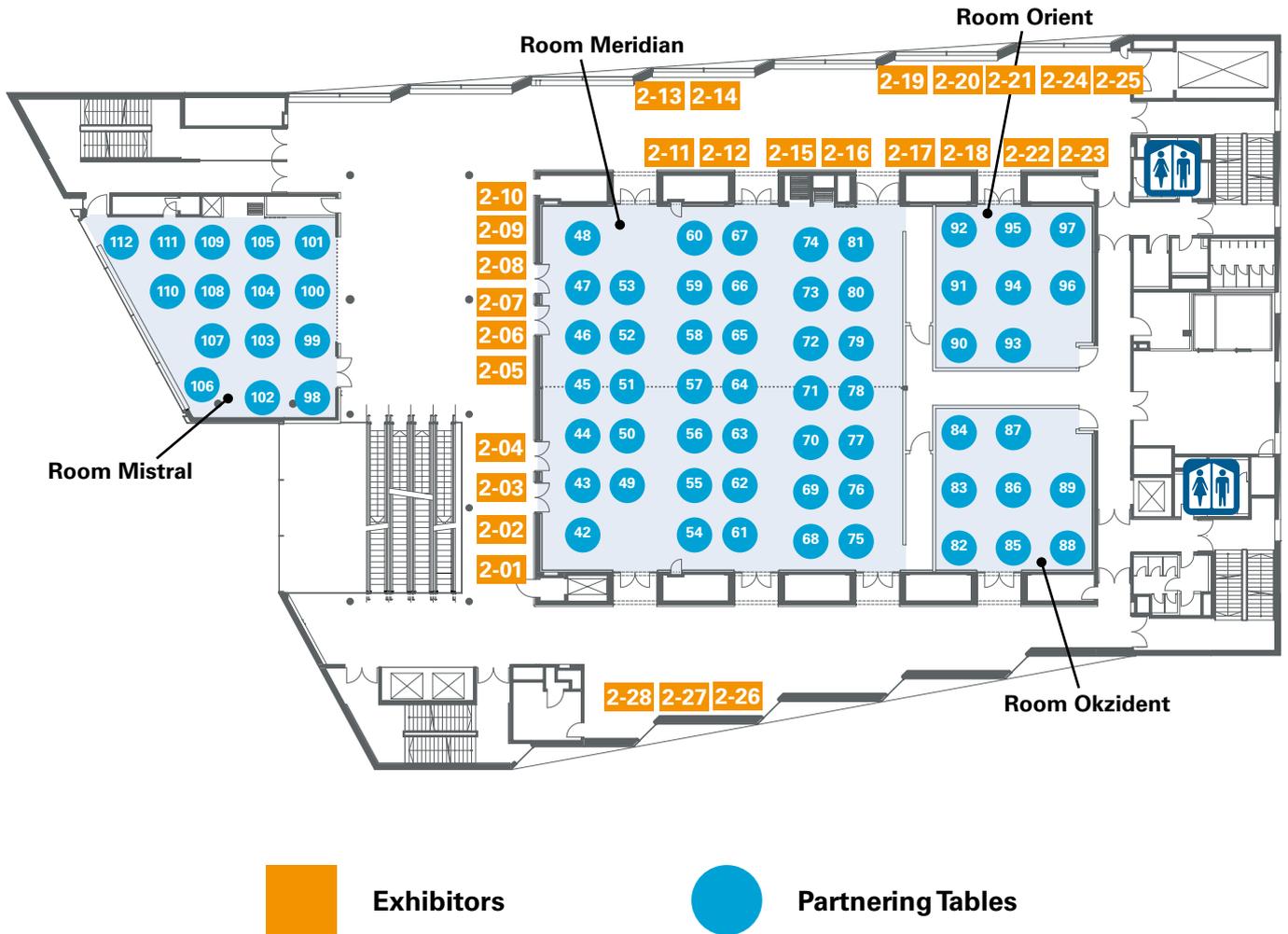
**Exhibitors**



**Partnering Tables**

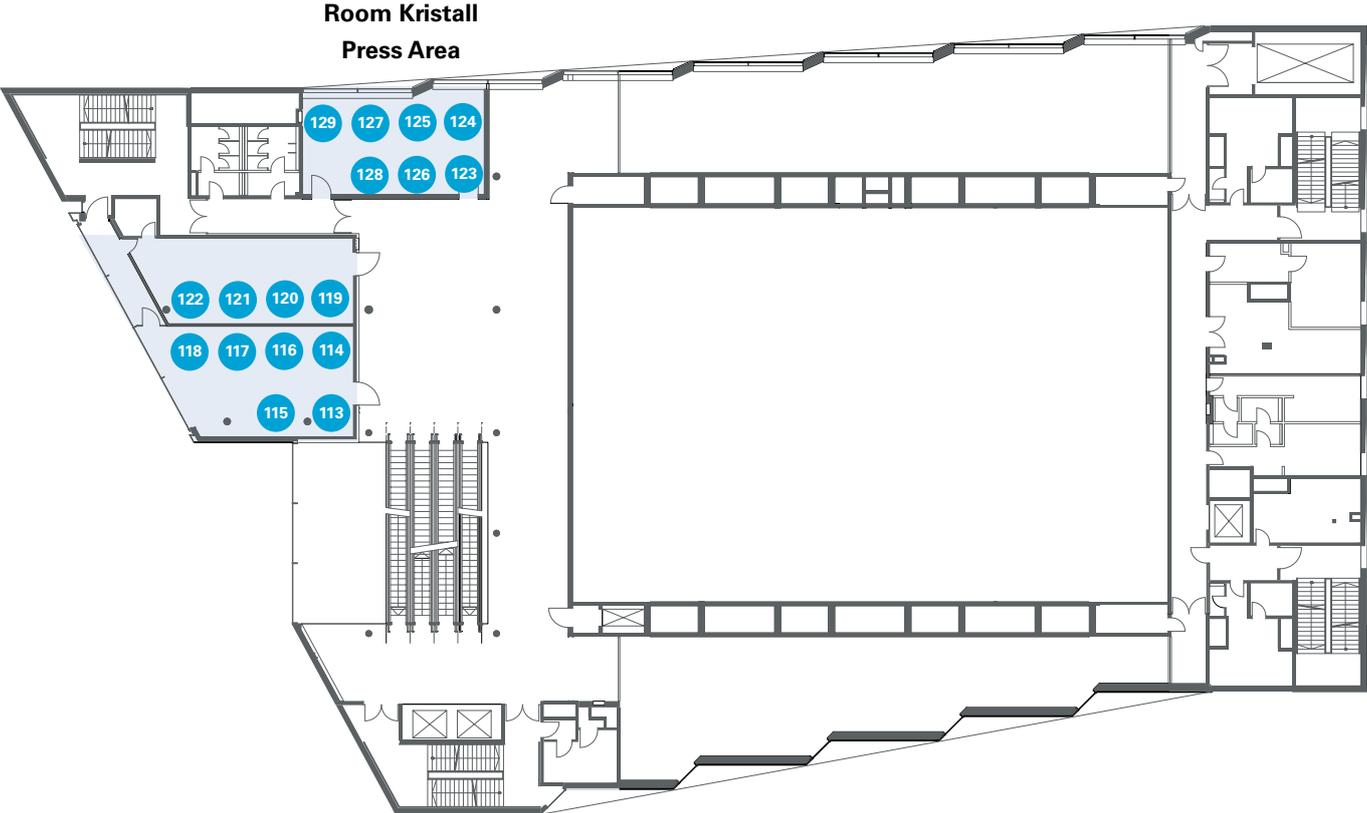
Booth	Company	Booth	Company
1-01	REACHLaw Ltd.	1-15	Process Design Center B.V.
1-02	Blücher GmbH	1-16	Bio Base Europe Pilot Plant - BBEP
1-03	Altum Technologies	1-17	ChiroBlock GmbH
1-04	Feindrahtwerk Adolf Edelhoff GmbH & Co. KG	1-18	MolPort
1-05	Flanders Investment & Trade	1-19	Chiracon GmbH
1-06	ENTEX Rust & Mitschke GmbH	1-20	CheMondis GmbH
1-07	Fraunhofer – IME	1-21	Gemsotec bvba
1-08	IBZ-Salzchemie GmbH & Co. KG	1-22	WALKOLUTION - WORK AND WALK
1-09	Syngulon SA	1-23	Brightlands Innovation Factory
1-10	ISC <sub>3</sub>	1-24	TAYLOR WESSING
1-11	Digital Hub Mannheim/Ludwigshafen	1-25	DECHEMA e.V.
1-12	Apeiron Synthesis S.A.	1-26	Deutsche Messe AG
1-13	Kutzenberger Wolff & Partner	1-27	BCNP Consultants GmbH
1-14	Orgentis Chemicals GmbH	1-28	

# Level 2: Partnering & Exhibition Area

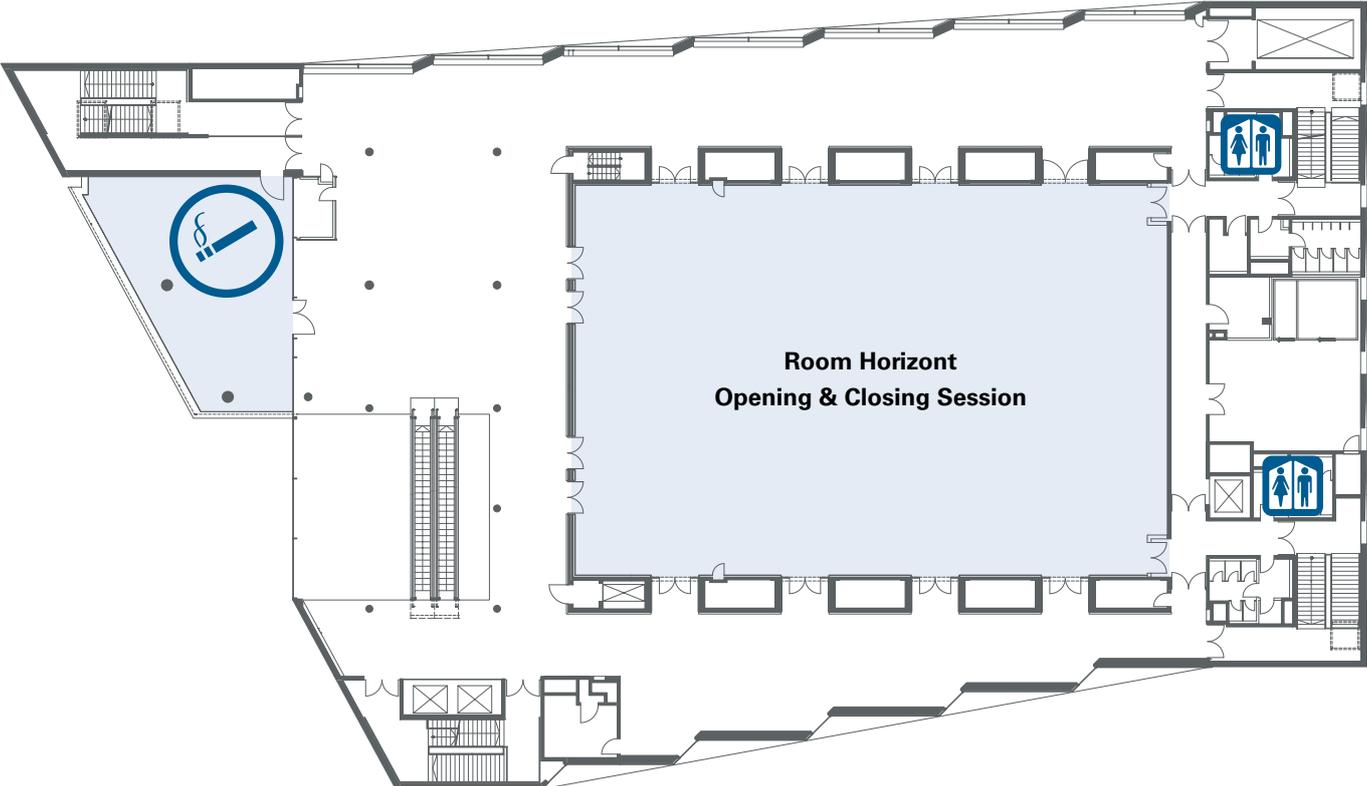


Booth	Company	Booth	Company
2-01	ASCA GmbH	2-15	Ecoatech GmbH
2-02	ARS Computer und Consulting GmbH	2-16	chembid GmbH & Co. KG
2-03	Taros Chemicals GmbH & Co. KG	2-17	RadiSurf ApS
2-04	Verhaert New Products & Services	2-18	Smallmatek Lda
2-05	AnalytiCon Discovery GmbH	2-19	Creaflo
2-06	B.R.A.I.N. Aktiengesellschaft	2-20	Enzymaster Deutschland GmbH
2-07	Enzymicals AG	2-21	Microtrac GmbH
2-08	Corden BioChem GmbH	2-22	aquila biolabs GmbH
2-09	Science4Life e.V.	2-23	Infraserv GmbH & Co. Höchst KG
2-10	Dentons Europe LLP	2-24	Gesellschaft Deutscher Chemiker e.V.
2-11	Bioeconomy e.V.	2-25	High-Tech Gründerfonds
2-12	chem2biz	2-26	EYCN - European Young Chemists' Network
2-13	Chemie-Cluster Bayern GmbH	2-27	
2-14	ICP - Rivista dell'Industria Chimica	2-28	

# Level 3: Partnering Area



# Level 4: Opening & Closing Session



# Workshops and Panels



## ADDITIVE MANUFACTURING. THE HESSIAN POINT OF VIEW.



**TECHNOLOGIELAND  
HESSEN**  
Vernetzt. Zukunft. Gestalten.

The additive manufacturing process is expected to play a crucial role in the context of the fourth industrial revolution. The generative nature of these technologies completely revises the previous understanding of conventional material-cutting techniques such as milling, drilling or turning. Here, it is not just a case of saving resources and avoiding production waste; it is possible to produce product parts with the kind of complex geometries which would not be possible at all if conventional methods such as casting were used.

## ROOM SOLAR 11:30 – 12:30



## DIGITALIZATION IN THE CHEMICAL INDUSTRY: OPPORTUNITIES AND RISKS FOR COMPANIES AND EMPLOYEES

VCW

GDCh

Digitalization is creating many new opportunities for industry. They go far beyond better process control and equipment management. One key consequence: Data can be monetized. The chemical industry only knows how to monetize chemicals, but not the data associated with them. If they do not learn how to 'sell' their data, somebody else will do it for them – and they will not like it. Think of Airbnb which does not own any hotels but makes a lot of money in the hospitality sector.

This workshop presents and discusses some approaches how to identify and manage opportunities and challenges related to this business revolution. It is based on first learnings in the chemical industry and experiences in other industries. Impact of the necessary changes will be different for business models and employees – so they must be managed differently but in parallel.

## ROOM SATELLIT 11:30 – 12:30



## ISC<sub>3</sub> GLOBAL START-UP SERVICE – SUPPORTING SUSTAINABLE CHEMISTRY INNOVATORS



The International Sustainable Chemistry Collaborative Centre (ISC<sub>3</sub>) has recently launched the Global Start-up service, a programme for Sustainable Chemistry changemakers offered to bridge existing support gaps. Tailored support is provided along the innovation chain, starting with ideators having not yet founded a company via start-ups at early development stages, to grown-ups expanding their business. After an introduction to the global start-up service, the workshop will feature an interactive session dedicated to actual support needs of start-ups.



## STRATEGIC FINANCE IN LIFESCIENCES & CHEMISTRY



THE FINANCING SPECIALIST

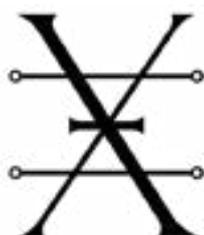
FCF's workshop provides an in-depth insight into the various financing opportunities, from early stage venture financings to bank debt financings, of a Chemical/ Life-Science company throughout its lifespan.

Financing trends, transactions and investors in Venture Capital, Growth Capital, Private Equity and IPOs across different markets (Germany, Europe and USA) will be exclusively introduced and invite for an extensive discussion.

## ROOM STRATUS 14:18 – 14:38



## THE ROAD AHEAD: DIGITAL CHEMISTRY



Until now there is no Tesla disrupting our core business, but digitalization has a massive impact on our future. We will have a discussion about Blockchain, Data Science and Artificial Intelligence, together with IBM and ARS. The panel is moderated by Dr. Thorsten Gressling the initiator of Digital Chemistry e.V. Berlin.

## ROOM STRATUS 15:30 – 16:30



## ACCELERATORS AS AN INNOVATION TOOL FOR CHEMISTRY COMPANIES



How to innovate? How to collaborate with startups? How to enable employees to think out of the box? How to keep up in a changing environment? How to change company culture?

Accelerators, Innovation Labs, Company Builders probably are a tool to foster all the needs defined to gain a competitive advantage.

But how to keep up with all these buzzwords, disruption, agility and Silicon Valley?

This workshop will clear up the foggy buzz a bit and show some possible paths to make your company a great place to work and to cooperate with.

Hubert Moik, Entrepreneur, business angel and wanderer between the good old world of Europe and the fancy new place of Silicon Valley will introduce you to solutions for your company's progress.

# Be up to date



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**Don't miss any information about the 4<sup>th</sup> European Chemistry Partnering on 27<sup>th</sup> February 2020.  
Receive all important information such as registration deadlines, new participants, information about the partnering tool and usefull tips about the event.**

# Closing Session: Panel Discussion

## FRIEDRICH BARTH

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Every day new data and examples reveal the enormous global challenges humanity is facing: climate change, the growing demand for scarce resources, the plastic pollution of the oceans, just to name a few. Earth's natural systems are under unprecedented stress. Over 60 percent of ecosystems are depleted while the consumption of natural resources is expected to rise three to six-fold by 2050. Only 9% of the 92.8 billion tonnes of minerals, fossil fuels, metals and biomass that enter the economy are re-used annually. And global use of materials is growing. It has more than tripled since 1970 and could double again by 2050. The Anthropocene, marked by humanity's impact on the planet, is an era of waste.

To find solutions for the manifold challenges of our times, we need more than a clean and efficient economy. We need transformative ideas to create a circular, ghg-neutral society. Innovative chemical companies have the potential to tackle these challenges and transform products and production processes along the value chain. By designing solutions which enable a circular economy and climate-resilient societies, chemistry could be a key driver for sustainable development.

Start-ups play a key role in this process. By unleashing the power of creativity, they challenge the existing systems of chemical production and use. But inspiration and entrepreneurship of small companies might not be enough to enable the breakthrough of sustainable chemistry. Better knowledge transfer and global cooperation are crucial to ensure the market success of innovative solutions. At the ISC3 we put together innovators and investors from all world regions with science and policy makers. By linking the different sectors and regions we want to inspire and support

tailor-made sustainable solutions which meet the needs of our western societies as well as those of the developing world. Today, I invite you to join the international collaboration of sustainable chemistry change-makers.



Friedrich Barth  
Managing Director  
International Sustainable Chemistry Collaborative  
Centre (ISC3)

## **FERNANDO J. GÓMEZ, PH.D.**

Fernando is Head of Chemistry and Advanced Materials at the World Economic Forum, where he oversees the involvement of partners from the chemical and materials industries in the Forum's programs and activities. Fernando has over a decade of experience in structuring and managing partnerships for technical and regional development, and has performed in areas including technology management, innovation, new product development and corporate venturing. Before joining the Forum in 2010, Fernando was for eight years at AkzoNobel, working in the areas of technical development and venture relations. Fernando holds a Chemistry degree from Universidad del Valle in Cali, Colombia, a Ph.D. in Organic Chemistry from the University of Florida, and completed his post-doctoral work at Stanford University. His research in polymer chemistry resulted in over 20 journal articles and patents. Fernando is a volunteer advisor to his alma mater and is active in global industrial and scientific societies.



Fernando J. Gómez, Ph.D.  
Head of Chemistry and Advanced Materials  
Industry, World Economic Forum

## **PROFESSOR MAGNUS NYDÉN**

Professor Magnus Nydén is a Physical Chemist with a PhD in NMR spectroscopy related to soft materials applications. He later combined physical chemistry, material science and mathematics for solving problems related to industrial materials and processes. Since 2017 he is the Global Chief Scientist at Nouryon and he comes from academic positions as head of department at University College London between 2015-2017, the director of the Ian Wark Research Institute at the University of South Australia between 2012-2015 and before that he was a professor at Chalmers University of technology. He has 10 patents, 160 publications, an H-index of 36 and has started three businesses during his academic career.



Professor Magnus Nydén  
Global Chief Scientist  
Nouryon Chemicals Holding B.V.

## **DANIELLA RUSSO**

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Daniella Russo is the CEO and Co-founder of Think Beyond Plastic, Inc, the leader of a global action to harness the forces of innovation and entrepreneurship to eliminate plastic pollution and to advance the New Plastics Economy.

Think Beyond Plastic leads a multidisciplinary effort to identify and commercialize innovations from each segment of the plastics value chain, and to connect industry and investors to the innovation ecosystem. Of particular focus are bio-benign materials, sustainable chemistry, innovative product delivery systems and recycling innovations.

Daniella Russo believes that intractable environmental challenges can be addressed by harnessing the forces of innovation and entrepreneurship, and the power of the markets to do good. She is a serial entrepreneur. She has started and ran numerous high-tech businesses, and her experience includes executive management from start-up phase through an IPO (such as Frame Technology, Infosseek and others), as well as Fortune-500 companies (Sun Microsystems, and Xerox PARC).

Daniella Russo is a member of the Founders Board of Advisors at StartX Stanford Student Startup

Accelerator. She is an Associate Professor at the Middlebury Institute of International Studies Graduate Program in International Policy and Management. She serves on the Board of numerous NGOs and businesses.

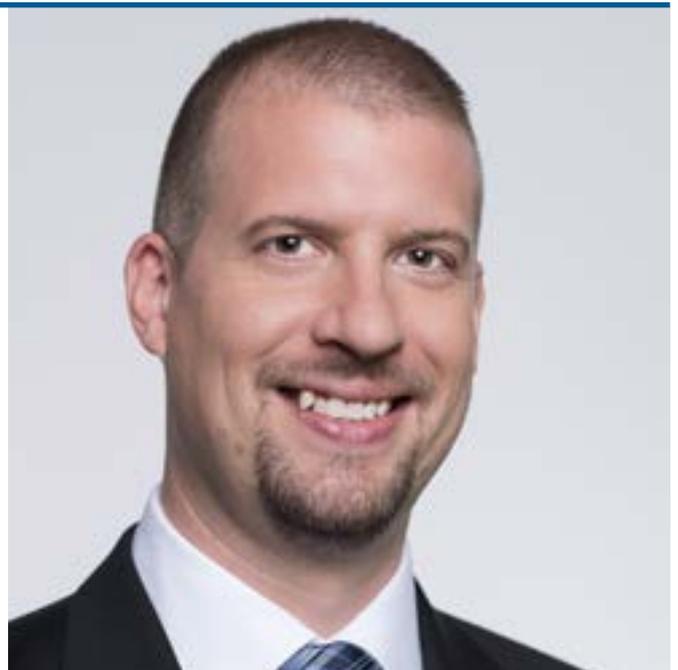


Daniella Russo  
CEO  
Think Beyond Plastic, Inc

## **DR. DAVID ECKENSBERGER**

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Dr. David Eckensberger currently leads the department international affairs at Hessen Trade & Invest (HTAI), the economic development agency of the federal state of Hessen. His department supports companies on their way to international markets, e.g. by organizing trade-fair appearances or helping to find cooperation partners in the EU. Beforehand, the educated chemist supported Hessian companies in the area of additive manufacturing, chemistry and nanotechnology as the director industrial technologies at HTAI.



Dr. David Eckensberger  
Head of International Affairs  
Hessen Trade & Invest GmbH

# Inversed Pitches



**Markus Solibieda**  
Managing Director

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## **WE ARE OFFERING**

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We are investing amounts of EUR 1 – 5 Mio. in order to support the market entry and further growth of promising companies. We partner with BASF and support our portfolio companies with know-how in chemistry and scale-up, as well as with market know-how and access to customers

## **WE ARE LOOKING FOR**

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Interesting young companies with strong growth perspectives, who are seeking to partner with a strategic investor

## **PRODUCTS, SERVICES / PROTOTYPES / PROOF-OF-PRINCIPLE**

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We are the corporate venture capital organization of BASF. With our global team, we invest in promising young companies with new technologies and new business models, in order to jointly create new business opportunities.

## **TECHNOLOGY / PATENTS**

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## **HISTORY / ASSETS / AWARDS / SPECIALS**

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Founded in 2001, we have invested in more than 45 companies and funds. Today, we have an active portfolio of 25 companies and funds, and we are operating from offices in Germany, China, USA, India, Brazil and Israel.

# CLARIANT



**Dr. Richard Haldimann**  
Head of New Business  
Development

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<b>Skype</b>	richard.haldimann@clariant.com
<b>Website</b>	www.clariant.com

## **WE ARE OFFERING**

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Collaboration including co-location opportunities with state of the art application capabilities, production technology and market access capable to rapidly scale the technology and business.

## **WE ARE LOOKING FOR**

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Technologies and products with a focus on sustainable green chemicals, biochemical solutions and catalysts addressing sustainability issues in a broad area of applications

## **PRODUCTS, SERVICES / PROTOTYPES / PROOF-OF-PRINCIPLE**

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Our focus is on partnering with companies that have products with proven effectiveness.

## **TECHNOLOGY / PATENTS**

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## **HISTORY / ASSETS / AWARDS / SPECIALS**

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Clariant is a leader in Specialty Chemicals committed to growth through innovation and has been recognized as one of the most sustainable chemical companies worldwide. It has been listed in the Dow Jones Sustainability Index for six years in a row.



**Dr. Rob F. Beudeker**  
Investment Director

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**Skype** -  
**Website** [dsm.com/corporate/about/business-entities/dsm-venturing.html](http://dsm.com/corporate/about/business-entities/dsm-venturing.html)

## **WE ARE OFFERING**

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We offer an equity participation in start-ups which are strategically relevant to our business in Nutrition, Solar, Biomedical and 3D Printing. We will establish a collaboration with our respective business groups and R&D organizations as part of the collaboration.

## **WE ARE LOOKING FOR**

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We are looking for start-ups and scale-ups active in Nutrition, Solar energy, Biomedical Materials and 3D Printing

## **PRODUCTS, SERVICES / PROTOTYPES / PROOF-OF-PRINCIPLE**

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We invest in companies with differentiation technologies, prototypes and products ranging from early stage to late stage

## **TECHNOLOGY / PATENTS**

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We will evaluate the patent portfolio of part of the due diligence process before investing

## **HISTORY / ASSETS / AWARDS / SPECIALS**

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# HALDOR TOPSOE



**Tore Sylvester Jeppesen**  
Business Development  
Director

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<b>Skype</b>	-
<b>Website</b>	www.topsoe.com

## **WE ARE OFFERING**

The possibility to start electrification of the chemical industry by producing CO via electrolysis. The eCOs technology will enable electrical production of CO whilst simultaneously having a negative CO2 footprint.

## **WE ARE LOOKING FOR**

Chemical producers who will work together with us in identifying suitable niche products where sustainable CO would give value.

## **PRODUCTS, SERVICES / PROTOTYPES / PROOF-OF-PRINCIPLE**

Today Topsoe leases the eCOs plants and assumes technical risk on a pay-as-produced scheme. Topsoe will assume full technology risk and would like to partner with companies as would best suit the opportunity. For large scale applications Topsoe would be happy to participate in JDA's or by entering into early commercial agreements.

## **TECHNOLOGY / PATENTS**

Conversion of CO<sub>2</sub> to CO by the use of electrolysis. The technology is capable of high single pass conversion and high current density minimizing the cost of production. The eCOs technology is industrially proven easy to operate flexible and robust system where Topsoe guarantees and services the core electrolysis technology

## **HISTORY / ASSETS / AWARDS / SPECIALS**

Today Topsoe operates with a lease type business model for small capacity plants (100 – 300 Nm<sup>3</sup>/h). The typical client relies on tube trailer delivery of CO and can achieve cost savings, feedstock security and sustainability advantages with the eCOs technology.



**Lennaert Klerk, PhD**  
**Common Application Team**  
**Leader**

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## **WE ARE OFFERING**

We are Nouryon, formerly known as AkzoNobel Specialty Chemicals. We offer essential chemistry solutions for the manufacture of everyday products such as paper, plastics, building materials, and personal care items.

## **WE ARE LOOKING FOR**

We run our Imagine Chemistry collaborative innovation program for the 3<sup>rd</sup> year now. Open till March 8<sup>th</sup>, we invite startups, scale-ups and other innovators to work with us as equal partners to tackle some of our most urgent challenges. Find more info and submit now on [www.imaginechemistry.com](http://www.imaginechemistry.com) and get direct feedback from our dedicated challenge teams.

## **PRODUCTS, SERVICES / PROTOTYPES / PROOF-OF-PRINCIPLE**

Imagine Chemistry provides focused collaboration that includes direct interaction with all relevant stakeholders. We are looking for solutions that have potential for a fast route to market and growth to global scale. Join us and get invited to our 3-day collaborative event in which we work on a joint vision for success and a joint value case.

## **TECHNOLOGY / PATENTS**

We are looking for solutions in the field of sustainable bio-based surfactants, sensors that can withstand the most demanding chemical environments, novel nanoparticles or nanoparticle modifications, and naturally safe, „label-free“ chemistries with superb performance. In addition to this, we are always open to any solution that provides a clear advantage to our current technologies.

## **HISTORY / ASSETS / AWARDS / SPECIALS**

We are a new company with roots dating back nearly 400 years. Innovation has always been important for us, and with Imagine Chemistry we are bringing in fresh outside ideas for our most prominent challenges. In the past 2 editions we have engaged over 2000 innovators, received over 350 solutions and now continue to work with over 20 of them.



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## **WE ARE OFFERING**

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We support entrepreneurs and their innovative ideas in many ways by giving grants, offering awards, sponsoring initiatives. ([www.merckgroup.com/en/research/grants-and-awards.html](http://www.merckgroup.com/en/research/grants-and-awards.html)).

## **WE ARE LOOKING FOR**

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We are looking for startups with the potential to reshape entire industries and make people's lives richer. The focus is on startups in the fields of healthcare, life science and performance materials – with a digital perspective. Do you have plans to internationalize your business? Even better!

## **PRODUCTS, SERVICES / PROTOTYPES / PROOF-OF-PRINCIPLE**

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1. Healthcare: Our goal is to make a difference to millions of lives with our prescription medicines to treat conditions such as cancer and infertility.
2. Life Science: We provide scientists with lab materials, technologies and services to make research and biotech production simpler, faster and safer.
3. Performance Materials: We develop specialty chemicals for demanding applications, from liquid crystals and OLED materials for displays and lighting to effect pigments for coatings and cosmetics through to high-tech materials for the electronics industry.

## **TECHNOLOGY / PATENTS**

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## **HISTORY / ASSETS / AWARDS / SPECIALS**

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**Dr. Matthias Urmann**  
**Head of Diabetes & Cardiovascular External Innovation, Global Business Development & Licensing**

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## **WE ARE OFFERING**

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Sanofi is a global leader in diabetes due to our rich history and pipeline. Our ambition is to expand care to the next level by seeking partnerships and collaborations with those who share our drive.

## **WE ARE LOOKING FOR**

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For Diabetes we are looking for new treatment opportunities in the field of Disease Modification in T1D and T2D, Obesity, Diabetes Complications, Insulins and Peptides, Drug Delivery, Glucose Monitoring & Connectivity.

## **PRODUCTS, SERVICES / PROTOTYPES / PROOF-OF-PRINCIPLE**

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## **TECHNOLOGY / PATENTS**

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## **HISTORY / ASSETS / AWARDS / SPECIALS**

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The world leader in serving science



**Karl-Gerhard Hoppmann**  
General Manager

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## **WE ARE OFFERING**

---

We help our customers accelerate life sciences research, solve complex analytical challenges, improve patient diagnostics and increase laboratory productivity.

## **WE ARE LOOKING FOR**

---

Collaborations, projects to enable innovation and enhance productivity, creative approaches.

## **PRODUCTS, SERVICES / PROTOTYPES / PROOF-OF-PRINCIPLE**

---

We offer an unmatched combination of innovative technologies, purchasing convenience and comprehensive support.

## **TECHNOLOGY / PATENTS**

---

We help our customers accelerate life sciences research, solve complex analytical challenges, improve patient diagnostics, deliver medicines to market and increase laboratory productivity. We offer an unmatched combination of innovative technologies, purchasing convenience and comprehensive services.

## **HISTORY / ASSETS / AWARDS / SPECIALS**

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Please visit [www.thermofisher.com](http://www.thermofisher.com) to learn more about our 5 primary brands: Thermo Scientific, Applied Biosystems, Invitrogen, Fisher Scientific, Unity Lab Services.



**Dr. Nina Rimmel**  
Development Manager

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## **WE ARE OFFERING**

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Wood fibers, molecules, residues and side streams are the building blocks of the future. UPM is using them to produce renewable and responsible products. We believe in a future beyond fossils.

## **WE ARE LOOKING FOR**

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Downstream partners within the value chain of our products.

## **PRODUCTS, SERVICES / PROTOTYPES / PROOF-OF-PRINCIPLE**

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UPM has developed an advanced concept to produce renewable glycols and lignin. We're currently exploring the possibility of building a European biorefinery in industrial scale. Our high-quality glycols would be ready to be converted into various industrial products and everyday consumer goods. Lignin has many industrial applications such as resins, adhesives, bio-plastics, and polyurethanes.

## **TECHNOLOGY / PATENTS**

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UPM's planned new-to-the-world biorefinery is based on a technology platform, where hardwood is disintegrated into sugars, lignin and green energy. The sugars are chemically converted to the targeted biochemicals bio-monoethylene glycol (bMEG), bio-monopropylene glycol (bMPG).

## **HISTORY / ASSETS / AWARDS / SPECIALS**

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UPM is a global leader of the forest industry with a history dating back over 100 years. Our extensive know-how of sustainably sourced renewable wood biomass is the starting point of our business. We see versatile wood-based biochemicals as the next natural step in the evolution of wood use. UPM was recognized as the industry's most responsible company in the global Dow Jones Sustainability Index.

# Pitching company profiles



**Nika Lendero Krajnc, PhD**  
**Senior Researcher**

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<b>Skype</b>	nikalendero
<b>Website</b>	www.aciesbio.com

## **WE ARE OFFERING**

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We are offering complete technology development and R&D expertise in microbial biotechnology, including strain engineering, bioprocess development with downstream processing, in-process and end-product analytics as well as de novo structure elucidation and small-scale production.

## **WE ARE LOOKING FOR**

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We are looking for market-leading industrial partners for joint technology development, based on early stage ideas or currently applied fermentation processes. We are also seeking collaborations with innovative SMEs and academics for in-licensing and/or co-development of industrial proof-of-concept.

## **PRODUCTS, SERVICES / PROTOTYPES / PROOF-OF-PRINCIPLE**

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New products for the agro and food/feed sector, microbial strain engineering and improvement, up-stream process development with fast screening through in-house bank of growth media, down-stream process development and optimization for small and large biomolecules, in-process and end-product analytics including de novo structure elucidation.

## **TECHNOLOGY / PATENTS**

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Unique expertise in evolutionary engineering and synthetic biology of physiologically complex bacterial and fungal strains, microfluidics-based ultra high-throughput strain selection, assuring relevant physiology from nanoliter volume to large scale bioreactors;

Innovative approaches reflected in 11 international patent families.

## **HISTORY / ASSETS / AWARDS / SPECIALS**

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In twelve years Acies Bio has grown from a small start-up company to a well-established R&D partner in the field of microbial biotech with proven track record and collaborations with 27 small and large chemical and pharmaceutical companies. Based on internal development Acies co-founded a drug discovery spin-off "TM3 Therapeutics" and a Joint venture on proprietary technology for valorization of waste whey.



**Dr. Nico Kaiser**  
Presales

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## **WE ARE OFFERING**

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We offer software solutions for your needs. Including programming and training! Our team consists of experts.

## **WE ARE LOOKING FOR**

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We are looking for partners who need our help and support regarding software-

## **PRODUCTS, SERVICES / PROTOTYPES / PROOF-OF-PRINCIPLE**

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ChemDraw, Signals Notebook, LeadDiscovery, TIBCO Spotfire, Wolfram Mathematica, Minitab, Origin, Gaussian, ADF and many more

## **TECHNOLOGY / PATENTS**

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Programs solutions specially tailored for our costumerss

## **HISTORY / ASSETS / AWARDS / SPECIALS**

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We are able to sell solutions not boxes we take out of a shelf.



**Guillaume de SOUZA,**  
Founder

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**Skype** gudesouza\_5  
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## **WE ARE OFFERING**

Adionics is offering an innovative and demonstrated solution to extract salts from saline water and brine. Its application has been demonstrated for selective extraction of LiCl, NaCl or KCl and as well for iodide salts. The process is sustainable by the use of low grade heat, low levels of energy and minimum water.

## **WE ARE LOOKING FOR**

Adionics is looking for some partnering in the development of projects for valuable salt selective extraction or, for valorization or recycle of water solubilized organic compounds by salt extraction, or for water valorization or recycle by the removal of non desirable ions or salts. Markets: Mining, Chemistry, Oil&Gas.

## **PRODUCTS, SERVICES / PROTOTYPES / PROOF-OF-PRINCIPLE**

Adionics has designed and started one technology demonstrator in Abu Dhabi, via a Masdar International tender answered with Suez group, and a pre-industrial pilot plant in Martigues, France, via the BPIFrance Concours Mondial d'Innovation, in collaboration with EDF, Total, Engie and Suez. Adionics proposes feasibility studies to demonstrate at lab scale Adionics' salt separation solutions on your waters. This step being taken, the next step will naturally be the EPC of a 1-10 m<sup>3</sup>/h on site test unit to acquire scale-up data.

## **TECHNOLOGY / PATENTS**

Adionics' technology is based upon a Thermal Swing Liquid-Liquid Salt Extraction process. Its patented salt extraction liquid formulation is temperature sensitive allowing its regeneration by simple contact with hot water. The associated process is also patented. Three families of patents are published to date and extended to many countries and regions in the world. Today, 10 of these regional patents are granted (B1 or B2), of which 8 from the oldest patent family.

## **HISTORY / ASSETS / AWARDS / SPECIALS**

Adionics was founded in March 2012 after 4 years of R&D in collaboration with LGMP/Ecole Centrale Paris Engineering School. The company is based in Thiais, in the southern Paris region and employs 14 people. Adionics joined the Global CleanTech100 list in 2017, and received the Jury Special Award from the French Union of Chemical Industries (UIC) in Sustainable Innovation, in 2018.



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# ECP-Journal

EUROPEAN CHEMISTRY PARTNERING



## EVERYTHING FOR A CLASSICAL INDUSTRY

EUROPEAN CHEMISTRY PARTNERING



**CHEMISTRY MAKES THE  
WORLD GO AROUND**

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**Dr.-Ing. Philipp Frania**  
product development  
process technology

**Name** Feindrahtwerk Adolf Edelhoff GmbH & Co. KG  
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**Email** frania@edelhoff-aqua.de  
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**Website** www.edelhoff-aqua.de

## **WE ARE OFFERING**

---

New technology to prevent the growth of bacteria and biofilms in industrial water circuits, e.g. closed cooling water circuits, galvanic rinses, process water. Technical assistance / consultancy in maintenance of industrial water circuits concerning the use of the AGXX® technology

## **WE ARE LOOKING FOR**

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Industrial customers, sales partners

## **PRODUCTS, SERVICES / PROTOTYPES / PROOF-OF-PRINCIPLE**

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ae-aqua mesh, ae-aqua filters, technical assistance / consultancy

## **TECHNOLOGY / PATENTS**

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AGXX® technology, protected by German and international patents

## **HISTORY / ASSETS / AWARDS / SPECIALS**

---

Company founded in 1760, production of special wire, drawing, electroplating  
AGXX® plating as new business sector



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**Dr.-Ing. Matan Beery**  
Founder and CEO

**Name** akvola  
**Address** Am Borsigturm 100  
**Postal Code/City** 13507 Berlin  
**Country** Germany  
**Phone** +49 30 959998950  
**Email** info@akvola.com  
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## WE ARE OFFERING

1. Low-energy industrial wastewater treatment technology based on flotation and ceramic membrane filtration especially designed for hard-to-treat waters and harsh environments common in the chemical industry.
2. Fine microbubble technology for oxygen transfer, algae harvesting and bubble reactors.

## WE ARE LOOKING FOR

- Partners in the chemical industry interested in fine bubble technology or industrial wastewater treatment.
- Potential investors

## PRODUCTS, SERVICES / PROTOTYPES / PROOF-OF-PRINCIPLE

**akvoFloat:** A chemical-physical water treatment process for removal of fats, oils, grease and heavy metals from industrial wastewaters

**MicroGas:** A fine bubble generator for high efficiency mass transfer in gas-liquid bubble reactors (e.g. oxidation, ozonation etc.)

## TECHNOLOGY / PATENTS

Three international patent families with several granted patents

## HISTORY / ASSETS / AWARDS / SPECIALS

akvola was founded in 2013 as a spin-off from the Chemical Engineering Institute of the Technical University of Berlin. Our products are being implemented in the metalworking industry, the oil, gas and petrochemical sector as well as in the steel industry. We won several awards including the 2014 GreenTec Awards and the 2017 Frost & Sullivan Technology Innovation Award.



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**Phone** +358 40 515 6373  
**Email** bo.malmberg@altumtechnologies.com  
**Skype** bo.malmberg@altumtechnologies.com  
**Website** www.altumtechnologies.com

**Mr. Bo Malmberg**  
**COO and**  
**Chairman of the board**

## **WE ARE OFFERING**

---

The only software-guided power ultrasound to remove and prevent fouling from industrial equipment with no production stoppages and no toxic chemicals.

## **WE ARE LOOKING FOR**

---

We are looking for potential customers and partners in chemical industry, especially those that need fouling prevention and cleaning solutions.

## **PRODUCTS, SERVICES / PROTOTYPES / PROOF-OF-PRINCIPLE**

---

Power Ultrasound products to clean and keep clean industrial equipment from fouling without stopping production:

AltumPI for pipes, AltumHX for heat exchangers, AltumTA for tanks, AltumFI for filters and more.

## **TECHNOLOGY / PATENTS**

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In 2018, Altum Technologies was granted two patents for its software guided power ultrasound. The first one took place in October 2018 and it is focused on time reversal software. In November 2018, the second patent was granted for AI and the ability to detect fouling by Altum's system.

## **HISTORY / ASSETS / AWARDS / SPECIALS**

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Winner of the prestigious Slush 100 pitching competition in 2017. Best Energy Startup 2016 award by GE.

2014: Challenge Accepted

2015: R&D

2016: Seed Funding & Pilots

2017: Altum Series Launch & Projects

2018: Series A, two patents granted & US expansion with office in Las Vegas



**Jens-Peter Müller**  
**Director Business Development & Project Management**

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**Email** j.mueller@ac-discovery.com  
**Skype** -  
**Website** www.ac-discovery.com

## **WE ARE OFFERING**

---

AnalytiCon Discovery offers a complete Natural Product (NP) drug discovery solution, ranging from biomaterial acquisition, extraction, fermentation and screening to computational and medicinal chemistry, delivering NP-libraries with fully elucidated structures. AnalytiCon's programs and collections of pure NPs (MEGAbolite®) as well as of semisynthetic NP-analogues (NatDiverse™) enable HT-screening of NPs.

## **WE ARE LOOKING FOR**

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## **PRODUCTS, SERVICES / PROTOTYPES / PROOF-OF-PRINCIPLE**

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## **TECHNOLOGY / PATENTS**

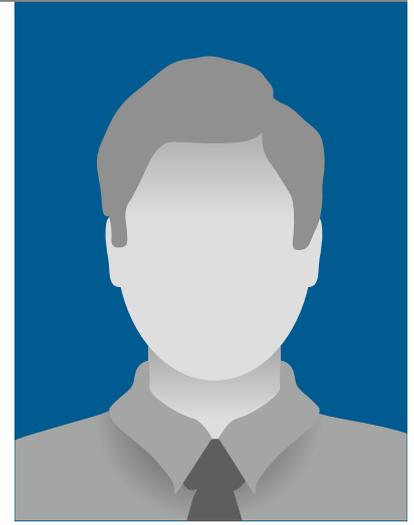
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## **HISTORY / ASSETS / AWARDS / SPECIALS**

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-



**Dr. M. Hecker**

**Name** AOM-Systems GmbH  
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**Country** Germany  
**Phone** +49 625 298 090 75  
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**Skype** -  
**Website** www.aom-systems.com

## **WE ARE OFFERING**

---

World's first and only inline quality monitoring system for spray/atomization processes (for example: spray drying, spray coating or injection) and lab applications for R&D of this processes. This offers lower production costs, lower environmental footprint and digitalization (IoT) opportunities.

## **WE ARE LOOKING FOR**

---

We are looking for spray processes owners who are interested in bringing their production or R&D to the next level. As well we companies producing for sprays are welcome, like paint or additive producers.

## **PRODUCTS, SERVICES / PROTOTYPES / PROOF-OF-PRINCIPLE**

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The SpraySpy® product family includes measurement technology for R&D applications and sensor technology for quality monitoring of spray processes.

## **TECHNOLOGY / PATENTS**

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We are the developers of the patent protected SpraySpy® Technology.

## **HISTORY / ASSETS / AWARDS / SPECIALS**

---

Established in 2013 we are the market leader in sensor systems for inline spray monitoring.



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**Phone** +31 736 471 71  
**Email** kbaas@aquacare.nl  
**Skype** kbaas@aquacare.nl  
**Website** www.aquacare.nl

**Koos Baas**  
Owner and CEO, BSc.

## **WE ARE OFFERING**

---

P removal Technology to prevent algae blooms for waste water or surface water treatment.

## **WE ARE LOOKING FOR**

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Investors from 1,5 to 5,0 M€

## **PRODUCTS, SERVICES / PROTOTYPES / PROOF-OF-PRINCIPLE**

---

BiOPhree technology to remove P from water and recover the captured P into a renewable product as Fertilizer.

## **TECHNOLOGY / PATENTS**

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BiOPhree patent

## **HISTORY / ASSETS / AWARDS / SPECIALS**

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Finalist in 10 M\$ George Barley Prize. 4 remaining candidates out of 114 competitors. Result expected in 2021. Winner in Baltic Sea Challenge. Ongoing process.



**Dr. Simon Widmaier**

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**Address** Hermann-von-Helmholtz-Platz 1  
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**Email** Simon.widmaier@aquarray.com  
**Skype** -  
**Website** www.aquarray.com

## **WE ARE OFFERING**

---

Miniaturized screening of cells including primary cells and stem cells, in 2D and 3D microenvironment (hydrogels), spheroids/organoids (hanging droplet). Cell screening with bioactive compounds (drugs, biomolecules).

## **WE ARE LOOKING FOR**

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Investors, strategic partnerships for manufacturing and distribution

## **PRODUCTS, SERVICES / PROTOTYPES / PROOF-OF-PRINCIPLE**

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Droplet Microarray: The technology platform for miniaturized and parallelized cell experiments. Reaching 100 nanoliter volume per cell experiment – saving 99% in comparison to microwell plates. Benefits: Use primary cells for large screenings: 1. Lower cost (99% less cell consumption) 2. Better statistics (do more experiments) 3. Without batch-to-batch variability 4. Gain results with higher predictivity for human physiology.

## **TECHNOLOGY / PATENTS**

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9 international patents and pending patents

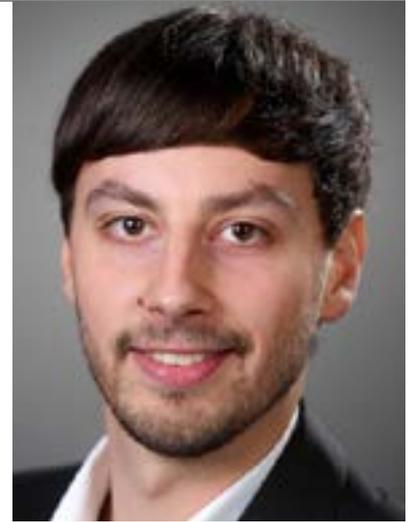
## **HISTORY / ASSETS / AWARDS / SPECIALS**

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Science4Life Venture Cup 2017 (Concept Phase), Science4Life Venture Cup 2018 (Business Plan Phase), Hello Tomorrow Global Top 500, EIT Health Catapult 2018



# aquila biolabs



**Julius Netzer,**  
**MSc Biotechnology**  
**Sales Manager**

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**Website** www.aquila-biolabs.de

## **WE ARE OFFERING**

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## **WE ARE LOOKING FOR**

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## **PRODUCTS, SERVICES / PROTOTYPES / PROOF-OF-PRINCIPLE**

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1. Cell Growth Quantifier (CGQ): Non-invasive online biomass monitoring in shake flask
2. Liquid Injection System (LIS): Automated feeding in shake flasks (e.g. fed-batch)
3. Cell Growth Quantifier (CGQ) BioR: Non-invasive online biomass monitoring for bioreactors

## **TECHNOLOGY / PATENTS**

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## **HISTORY / ASSETS / AWARDS / SPECIALS**

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**Dipl.-Ing. Jens Harig**  
**Managing Founder**

**Name** ARXUM Business GmbH  
**Address** Gartenstrasse 6  
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**Country** Switzerland  
**Phone** -  
**Email** info@arxum.com  
**Skype** -  
**Website** www.arxum.com

## **WE ARE OFFERING**

---

We are offering: Software-as-a-service for a fully digital supply chain in manufacturing, based on blockchain technology. The ARXUM Production Protocol provides immutable product traceability, exchange of data between manufacturing peers & protection of IP to create mass-customized products.

## **WE ARE LOOKING FOR**

---

We are looking for: ARXUM is looking for project partners willing to implement a project, MVP or PoC. Based on existing components and proven technology ARXUM is capable of rapidly implementing a project allowing to evaluate the full potential of a blockchain based solution in the chemical industry.

## **PRODUCTS, SERVICES / PROTOTYPES / PROOF-OF-PRINCIPLE**

---

Software-as-a-Service to effectively connect multiple production companies / facilities / departments via simple interface to a blockchain based production order. Immutable traceability and product documentation. The ARXUM Connection Box can be integrated in brownfield production machines and directly connects to the ARXUM Production Protocol without manual intervention.

## **TECHNOLOGY / PATENTS**

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One production order is created as one smart contract on a blockchain. ARXUM is blockchain agnostic and can build upon any blockchain technology such as Ethereum, IOTA, Æternity, Stellar, EOS, NEO or others. The ARXUM Connection Box can be directly integrated into production machines, providing for immutable documentation of production machine events.

## **HISTORY / ASSETS / AWARDS / SPECIALS**

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Spin-off from an existing German company, active vor 30 years in process automation.  
 Collaboration with an experienced partner for pharmaceutical product and process validation.  
 Providing an own, cyber-secure IoT gateway with native blockchain connectivity.



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**Dr. An Van Den Bulcke**  
**CEO**

**Dr. Victor de la Rosa**  
**CSO**

## **WE ARE OFFERING**

We offer tailor-made biocompatible polymers of the highest quality and licensing opportunities based on our highly versatile poly(2-oxazoline) polymer platform. We create various derivatives for selective functionalization. Applications: antibody-drug-conjugate linker, bio- /antifouling coatings, formulations.

## **WE ARE LOOKING FOR**

We are looking for research and licensing partners that need tailor-made bio-compatible polymers for a specific application. We offer patent protected product development spanning e.g. coating of micro- and nanoparticles, medical implants, ADCs, diagnostics, drug delivery vehicles, hydrogels, micelles, etc.

## **PRODUCTS, SERVICES / PROTOTYPES / PROOF-OF-PRINCIPLE**

Avroxa offers polyoxazolines under the brandname ULTROXA® in mg to multi-kg scale and provides cGMP manufactured materials. Due to the low-immunogenicity, biocompatibility, outstanding stability and processability of polyoxazolines, they find uses in many areas. We are a customer-centered research partner from early research to final product development and commercial batches. A limited number of standard Ultroxa® polymers is available via major chemical distributors: Merck (Sigma Aldrich) and TCI.

## **TECHNOLOGY / PATENTS**

Avroxa currently holds eight patent families covering both materials and chemistries. Our unparalleled fine control over the polymerization process sets us apart in the poly(2-oxazoline) field. Polyoxazolines have the potential to replace polyethylene glycol (PEG, PEGylation) in the biopharmaceutical market and are an alternative to PVP (polyvinyl pyrrolidone) or PVOH (polyvinylalcohol). We provide proprietary patent protected technology and license opportunities protecting your final products.

## **HISTORY / ASSETS / AWARDS / SPECIALS**

Avroxa is a spin-off company of Ghent University from the group of Richard Hoogenboom, co-founder and a world-wide expert with over 15 years of experience in the polyoxazoline field. Avroxa holds key know how to design and produce polyoxazolines with tailored properties, controlling the exact polymer length, hydrophilicity, and functionalization, and provides materials from research to commercial scales. We support our customers from product development to the market.



**Dr.-Ing. Frank Kensy**  
Managing Director

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**Website** www.bfab.bio

## **WE ARE OFFERING**

---

b.fab offers R&D services in synthetic biology, strain and pathway engineering, bioprocess development and technology transfer to promote and establish a C1 bioeconomy.

– We develop economical and sustainable bioprocesses starting from CO<sub>2</sub>

## **WE ARE LOOKING FOR**

---

Customers and partners to explore the benefits of our new synthetic pathway for the production of commodity and speciality chemicals

## **PRODUCTS, SERVICES / PROTOTYPES / PROOF-OF-PRINCIPLE**

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- Pathway and strain engineering
- Bioprocess development
- Technology transfer
- Licences on strains, processes and technology
- CCU technology

## **TECHNOLOGY / PATENTS**

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- Patents on new biosynthetic pathways for C1 assimilation and usage
- Patent on biosynthetic route to store hydrogen in formic acid

## **HISTORY / ASSETS / AWARDS / SPECIALS**

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Founded in February 2018 by Frank Kensy, Arren Bar-Even and b.value AG, strong collaboration with MPI, FhG and universities



**Frederik De Bruyn, PhD  
Business Development  
Manager**

**Name** Bio Base Europe Pilot Plant  
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**Phone** +32 933 570 01  
**Email** Frederik.de.bruyn@bbeu.org  
**Skype** -  
**Website** www.bbeu.org

## **WE ARE OFFERING**

---

Bio Base Europe Pilot Plant is a multipurpose pilot facility for the development, scale-up, and custom manufacturing of bio based products and processes. As a Research & Demonstration infrastructure, BBEP has a wide range of state-of-the-art industrial equipment which covers the whole value chain from Biomass to Refined Product: biomass pretreatment, fermentation, downstream purification, bio-catalysis and explosion proof green chemistry.

## **WE ARE LOOKING FOR**

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We are looking for companies interested in the services we provide as well as partner for Horizon2020 projects.

## **PRODUCTS, SERVICES / PROTOTYPES / PROOF-OF-PRINCIPLE**

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Services: process development on laboratory and pilot scale, scale up to 15 000 L scale, custom manufacturing. Fermentation units of 4\*1L, 6\*10L , 10\*150 L, 2\*1500L, 1\*4500 L and 2\*15000 L. Broad range of downstream processing and pretreatment equipment. An equipment list is on our website.

## **TECHNOLOGY / PATENTS**

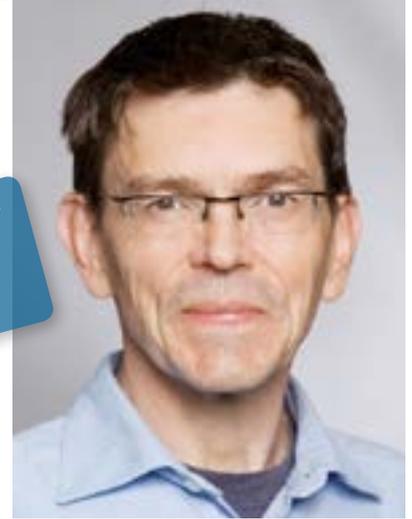
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Biomass pretreatment techniques/ biocatalysis/fermentation/downstream processing/ green chemistry

## **HISTORY / ASSETS / AWARDS / SPECIALS**

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History: BBEP has successfully scaled up more than 200 processes for more than 100 companies, BBEP was awarded as mKET pilot line demonstrator by the European Commission in 2014. BBEP's project Bio Base 4 SME was awarded the Regiostars award for best projects. Testimonials of customers can be found on our website under <http://www.bbeu.org/pilotplant/category/testimonials/> and our youtube channel.



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**Website** www.bluecher.com

**Jan Raiser, Dipl.-Ing.**  
**Project Engineer**  
**Julia Pohl, M. Sc.**  
**Project Engineer**

## **WE ARE OFFERING**

---

High performance adsorption technology based on our core product SARATECH® adsorbents e.g. for water treatment applications to remove polar and non-polar organics, AOX, DOC.

## **WE ARE LOOKING FOR**

---

Potential customers facing the necessity to remove emerging organic substances even with challenging properties e.g. persistent, polar, toxic

## **PRODUCTS, SERVICES / PROTOTYPES / PROOF-OF-PRINCIPLE**

---

SARATECH® adsorbents

Regeneration service

Engineering and maintenance services for water treatment plants focussed on adsorption

Continuous Counterflow Adsorber as prototype (adsorption and regeneration in a closed material loop)

## **TECHNOLOGY / PATENTS**

---

Production of SARATECH® adsorbents in a patented process

Patent on Continuous Counterflow Adsorber

Regeneration technology

## **HISTORY / ASSETS / AWARDS / SPECIALS**

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Founded in 1969, family owned, SME company, two business units (CBRN protection and industrial applications), first-tier supplier in CBRN protection market

Aquatech Innovation Award 2017 in the category 'not yet to market' for Continuous Counterflow Adsorber



**Dr. Jens Bergmann**  
**Project Manager R&D**  
**Anastasia Stephan**  
**Product Manager Saratech**

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**Phone** +49 211 924 420 2  
**Email** saratech@bluecher.com  
**Skype** -  
**Website** www.bluecher.com

## WE ARE OFFERING

---

Noble metal catalysts on SARATECH® polymer-based spherical carbon support distinguished by exceptional mechanical stability and customisable particle size distribution.

## WE ARE LOOKING FOR

---

Partners and potential customers interested in noble metal carbon-supported catalysts for use in continuous as well as batch manufacturing processes of fine chemicals and pharmaceuticals.

## PRODUCTS, SERVICES / PROTOTYPES / PROOF-OF-PRINCIPLE

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Noble metal carbon-supported catalysts for hydrogenation, debenzylation, nitro-reduction

## TECHNOLOGY / PATENTS

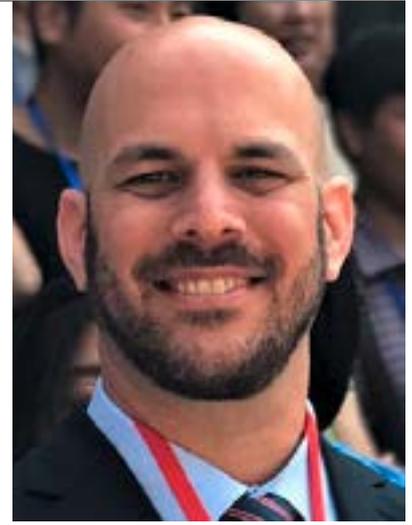
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- Manufacturing of SARATECH® adsorbents in a patented process
- Immobilisation of noble metals on SARATECH® polymer-based spherical carbon support

## HISTORY / ASSETS / AWARDS / SPECIALS

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Founded in 1969, family owned, R&D-focused SME company; two business units (CBRN protection and industrial applications); first-tier supplier in CBRN protection market and supplier of customised solutions for water & air processing, medical applications and heterogeneous catalysis.



**Eyal Harel**  
CEO

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**Phone** +49 162 938 152 6  
**Email** eyal@bgtechs.com  
**Skype** eyal\_harel  
**Website** www.bgtechs.com

## **WE ARE OFFERING**

---

A novel line of algaecides designed to effectively treat harmful algal blooms in waterbodies irrespective of size or shape.

## **WE ARE LOOKING FOR**

---

Global distribution partners

## **PRODUCTS, SERVICES / PROTOTYPES / PROOF-OF-PRINCIPLE**

---

Lake Guard Blue – floating, slow-releasing copper sulfate pentahydrate (US EPA approved; NSF-60 certified); Lake Guard Oxy – floating, slow-releasing sodium percarbonate.

## **TECHNOLOGY / PATENTS**

---

The Lake Guard technology utilizes effective, market approved, algicides, coated with its proprietary inert, biodegradable polymer to achieve a “silver-bullet” effect against harmful algal blooms. Hundreds of commercial applications in Israel, US, China and Russia consistently demonstrate the Lake Guard’s superior profile, resulting in as much as 95% dose reduction, 50-90% operational-cost reduction and the ability, for the first time, to treat any waterbody, irrespective of size or shape.

## **HISTORY / ASSETS / AWARDS / SPECIALS**

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-



**Reinis Spunde**  
CEO

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**Skype** reinisspunde  
**Website** rsmarketings.wixsite.com/catalyco

## **WE ARE OFFERING**

---

Our method, for production of nano sized particles, allows to improve two common and very important characteristics of absorbents and catalysts - the surface area and strength, that leads to higher reaction rates and longer lifetime. The benefit of this is, increase of margins in commodity market.

## **WE ARE LOOKING FOR**

---

Our milestones for this year are to complete our team, secure the IP rights, prepare samples for customer validation and assemble production equipment prototype. We are looking for seed investment to speed up our development.

## **PRODUCTS, SERVICES / PROTOTYPES / PROOF-OF-PRINCIPLE**

---

During the development of this technology, we have found our best market fit in sulfur absorbents and methanol catalysts. Here, we already have 5 market ready products – for basic applications in chemical industry. These products have already been produced in industrial scale.

## **TECHNOLOGY / PATENTS**

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Our technology is developed by a family of chemists working on it for more than 30 years. Based on our method, we are developing new applications for ZnO and CuO nano-particles, like IR and UV filters. Also developing applications for other metals, like lithium to improve battery performance. And we have designed a device that will allow to produce nano-particles easy and eco-friendly.

## **HISTORY / ASSETS / AWARDS / SPECIALS**

---

We have started product tests with Haldor Topsoe. preparing samples for global chemicals producer, interested to buy high surface area ZnO. With Fraunhofer institute preparing for H<sub>2</sub>O<sub>2</sub> project, to develop methanol synthesis catalyst. We have received pre-seed funding from CR fund, and Climate KIC in Riga. Just finished an acceleration program at Brightlands Chemelot Campus, where we made big steps forward, we made 25 new industry contacts and validated the market for our products



**Christian Bürger**  
Managing Director

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<b>Website</b>	www.chembid.com

## **WE ARE OFFERING**

We are offering companies the chance to work with the world's largest metasearch engine that is specialized in chemical offers. As one of the largest B2B online platforms for chemical business, we provide suppliers and buyers with vast amount of information and features.

## **WE ARE LOOKING FOR**

We are looking for participants and business partners to deliver even more value to the global platform and to join us in driving forward the digital transformation of the chemical industry.

## **PRODUCTS, SERVICES / PROTOTYPES / PROOF-OF-PRINCIPLE**

The heart of the chembid platform is an innovative and specialized global search engine. It enables commercial buyers and sellers of chemicals to have simpler, faster and more efficient interaction with each other. Additionally, we further offer services to aid buyers, sellers and shop operators in their daily business like a sourcing tool, elaborated market statistics or premium online marketing services. Taken together we are aiming to become the go-to place for the chemical industry on the web.

## **TECHNOLOGY / PATENTS**

Our innovations are a combination of modern web-technologies in novel ways. The chembid platform is based on modern websearch-technology and data analytics, API's and a global high-performance cloud network to deliver high value and benefit for our users.

## **HISTORY / ASSETS / AWARDS / SPECIALS**

The European chemical industry is finally on the edge of engaging in B2B eCommerce activities. chembid is one of the front runners in this sector and offers exciting possibilities with marginal effort and expenses for users, by having all the chances inherent to this new form of engaging with buyers and sellers.



**CheMondis**



**Anna Lena Zeisbrich**  
**Head of Product**

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**Skype** -  
**Website** www.chemondis.com

## **WE ARE OFFERING**

---

We are offering an easy to access marketplace for all companies participating in producing and trading chemicals in Europe. Marketplace participants cannot only send quote requests or negotiate online with another participant, but they can also buy available quantities offered on fixed conditions instantly.

## **WE ARE LOOKING FOR**

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We are looking for all sales and procurement representatives, as well as product managers who want to extend the reach of their daily work and use online selling as an additional channel of market and sell their products.

## **PRODUCTS, SERVICES / PROTOTYPES / PROOF-OF-PRINCIPLE**

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With our current MVP on chemondis.com we are now serving over 250 active companies on our marketplace.

## **TECHNOLOGY / PATENTS**

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## **HISTORY / ASSETS / AWARDS / SPECIALS**

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**Florian Hildebrand**  
Co-Founder and  
Managing Partner

<b>Name</b>	ChemSquare GmbH
<b>Address</b>	Hühnerweg 15
<b>Postal Code/City</b>	60599 Frankfurt am Main
<b>Country</b>	Germany
<b>Phone</b>	+49 173 2624534
<b>Email</b>	florian.hildebrand@chemsquare.com
<b>Skype</b>	-
<b>Website</b>	www.chemsquare.com

## **WE ARE OFFERING**

We help you optimize your supplier qualification process to fulfill your regulatory requirements more efficiently. Our unique quality management solution provides a more efficient and effective way to organize, manage and renew supplier audits. By connecting customers to accredited auditors and certification bodies, we increase safety and transparency along the value chain, and reduce supplier qualification costs.

## **WE ARE LOOKING FOR**

We know that we can only achieve our vision in collaboration with industry players. Therefore, we are looking for partnerships to expand our audit offering and harmonize a widely accepted quality standard.

## **PRODUCTS, SERVICES / PROTOTYPES / PROOF-OF-PRINCIPLE**

Essentially, we offer our clients three main services:

- fast and easy access to more than 1,200 readily-available audit reports
- cost savings through convenient access to forthcoming shared audits
- customized individual audits through access to lavish auditor network

## **TECHNOLOGY / PATENTS**

Our proprietary technology is continuously developed based on customer feedback. Get in touch to learn more about the upcoming features in our roadmap.

## **HISTORY / ASSETS / AWARDS / SPECIALS**

- Winner University Innovation Challenge 2018
- Part of AxelSpringer Porsche Accelerator
- Strategic Partner of Orthomol pharmazeutische Vertriebs GmbH



**Dr. Oliver Seidelmann**  
Managing Partner

**Name** ChiroBlock GmbH  
**Address** Andresenstraße 1a  
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**Country** Germany  
**Phone** +49 349 463 832 3  
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**Skype** chiroblock  
**Website** www.chiroblock.com

## WE ARE OFFERING

Synthesis services bridging the gap between basic research and product development at manufacturers: unbiased consulting, route scouting, process development, synthesis of new compounds (mg to kg).

## WE ARE LOOKING FOR

Customers of all branches of the „matter-based“ industries with the demand for new compounds and / or for new, optimized synthesis processes. Partners with complimentary technologies in making molecules.

## PRODUCTS, SERVICES / PROTOTYPES / PROOF-OF-PRINCIPLE

“MoleculeFactory”: One-time synthesis of entirely new substances,  
 “ReDesignFactory”: Development and optimisation of synthetic routes,  
 “IP-Factory”: Generating and selling own synthesis IP by responding to open innovation challenges  
 “SupplyChainFactory”: QM-regulated syntheses of new compounds prior to the optional process transfer

## TECHNOLOGY / PATENTS

“IP-Factory’s” latest Patent: WO2017032509 - New compounds for novel preserving agents for ophthalmica, cosmetics and materials: Combining the activity of BAC and the safety profile of PQ-1. DE10107528, DE10062640, DE10055183 - enantioselective syntheses. Proprietary approach of managing internal + external synthesis know how, synthesis risks, quality and development projects.

## HISTORY / ASSETS / AWARDS / SPECIALS

Founded in 1999 – 20 successful and profitable years in the business of advancing / applying the latest synthesis know-how to industrial needs. Completely staff-owned and independent. 50% of the staff are scientists. State of the art facilities with all synthesis and purification technologies from lab scale to multi kg. Certified QM system (ISO 9001). Excipient syntheses under IPEC 2006PQG GMP regulations.



**Gerit Tolborg, PhD**  
**CEO**

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<b>Country</b>	Denmark
<b>Phone</b>	+45 616 032 09
<b>Email</b>	GTolborg@chromologics.com
<b>Skype</b>	-
<b>Website</b>	www.chromologics.com

## **WE ARE OFFERING**

Chromologics is a Danish biotech start-up using a non-GMO cell factory platform for the production of natural colorants. Our proprietary fermentation process is sustainable, scalable, and provides high consistent quality at low stable prices. Our flagship product is the red natural colorant ChromoRed.

## **WE ARE LOOKING FOR**

Chromologics is looking for partnerships and collaborations that can help identifying lead applications in the non-food sector (Household Detergents, Plastics, Cosmetics, Effect Chemicals). We are also looking for support to scale-up our production and to help us improve our downstream-processing.

## **PRODUCTS, SERVICES / PROTOTYPES / PROOF-OF-PRINCIPLE**

The colorant ChromoRed has a unique bright red color. Its excellent heat and pH stability, together with ChromoRed being very water soluble, makes it a challenging competitor of not only betanin and anthocyanines, but also of Carmine. Unlike Carmine, ChromoRed does not suffer from price fluctuations and is considered vegan, kosher, and halal. Testing of ChromoRed for food applications by various color houses gave very positive results. ChromoRed is not genotoxic, not cytotoxic, and not bioavailable.

## **TECHNOLOGY / PATENTS**

Chromologics has developed a proprietary two-step fermentation process that promotes production of one single pigment at a time. This technique eases downstream processing and increases recovery. Compared to production methods of traditional natural colorants, production of ChromoRed is more sustainable and scalable. Potentially, our current process could be further developed to manufacture other pigments in the same compound class, and thereby extending our portfolio beyond ChromoRed.

## **HISTORY / ASSETS / AWARDS / SPECIALS**

Chromologics ApS is a privately owned company and the ownership is divided between the five co-founders. Since 2016, Chromologics was financed by non-dilutive grants and was able to raise 850k USD in capital. In 2017 Chromologics was selected "Best Start-up" at Food Innovation Europe. We are very proud to have established several very close collaboration with Color Houses in Europe and the US and hope to extend our partnerships into the non-food sector.



**Johannes Solzbach,**  
**CEO**

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**Email** info@clustermarket.com  
**Skype** -  
**Website** www.clustermarket.com

## **WE ARE OFFERING**

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Clustermarket's online marketplace is helping scientists, engineers and other technology pioneers to rent lab equipment from nearby institutions and find the best service providers. The equipment and services listed on Clustermarket are provided by universities, other research institutions and businesses.

## **WE ARE LOOKING FOR**

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Startups and SMEs to support them with access to lab equipment/services. Academic institutions and industrial sites that are interested in managing their scientific resources more efficiently and/or offer access to their infrastructure and expertise through technical services.

## **PRODUCTS, SERVICES / PROTOTYPES / PROOF-OF-PRINCIPLE**

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Besides our online marketplace we also provide an easy-to-use lab management system (Bookkit) that helps to organise equipment and service bookings from students, researchers and technicians within your laboratory and university. Both solutions can be accessed by registering an account on [www.clustermarket.com](http://www.clustermarket.com).

## **TECHNOLOGY / PATENTS**

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## **HISTORY / ASSETS / AWARDS / SPECIALS**

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Fully operational since March 2017- Winner Merck Accelerator program - Winner Mass Challenge UK - Winner Imperial College "Scalable Business Award - Partnership with GE Life Sciences



**Maik Weber**  
CEO

<b>Name</b>	CompraXX GmbH
<b>Address</b>	Otto-Wolff-Str. 13
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<b>Phone</b>	+49 349 543 169 20
<b>Email</b>	maik.weber@compraxx.de
<b>Skype</b>	-
<b>Website</b>	www.compraxx.de

## **WE ARE OFFERING**

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We are offering contract and custom compounding services for polymers, especially biopolymers, polyesters, polyamides and functional masterbatches. In addition, we carry out laboratory services and analyzes for polymers.

## **WE ARE LOOKING FOR**

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We are looking for new customers and licensors interested in long term contracts for custom and contract compounding of any kind of thermoplastic materials and/or infrared drying of polyesters and biopolymers. We are open for discussions with investors to expand our business.

## **PRODUCTS, SERVICES / PROTOTYPES / PROOF-OF-PRINCIPLE**

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We service our customers with extended processing know-how and produce polymer compounds and masterbatches starting from 500 kg up to full truck loads. We develop, optimize and combine technologies in the field of thermoplastic compounding and offer them as a unique service. We support development projects to bring new materials and formulations from laboratory scale to industrial scale in a very short time.

## **TECHNOLOGY / PATENTS**

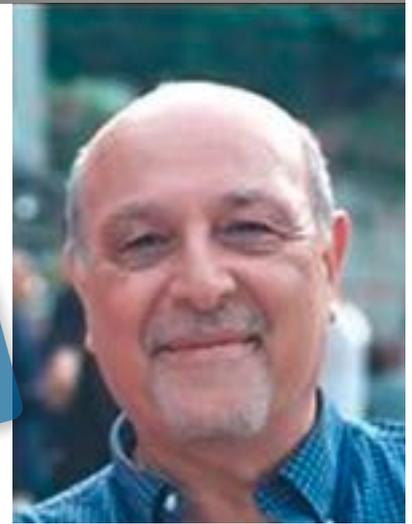
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We make use of specialized technology in low shear twin screw compounding according to our appropriate setup and design. Fully wear and corrosion protection and high temperature layout allow for a broad range of almost all known thermoplastic polymers. We use under-water pelletizing and strand pelletizing, mixing and blending capacities for bulk materials. We combine in-house infrared treatment for pellets, flakes and regrind with an unmatched and highly versatile compounding line setup.

## **HISTORY / ASSETS / AWARDS / SPECIALS**

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Our privately owned company was established in 2014. With 17 employees we offer 4.000 tons production annually. We are ISO 9001:2015 certified and host an in-house laboratory.



Isa Duenyas

**WATER & CHEMISTRY  
SPONSORED BY  
ISLE UTILITIES**

**Name** CQM, Ltd  
**Address** Kibbutz Givat  
**Postal Code/City** Hashlosha 480000  
**Country** Israel  
**Phone** +972 397 320 80  
**Email** isak@cqm-tech.com  
**Skype** Isak\_duenyas  
**Website** www.cqm-tech.com

## **WE ARE OFFERING**

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Chemical free water treatment for cooling towers, based on electro chlorination. Our proprietary self cleaning mechanism allows continuous efficient operation using sea water, hard water, even waste/reject waters for the operation of the cooling tower, and saves water. Prevents scale, fouling and corrosion

## **WE ARE LOOKING FOR**

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Projects where our solutions can be applied; partners to work together for marketing and distribution worldwide; pilots for proof of concept in different applications

## **PRODUCTS, SERVICES / PROTOTYPES / PROOF-OF-PRINCIPLE**

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Over 1,000 systems installed and operational worldwide, used in cooling towers and drinking water chlorination. Case studies and references available

## **TECHNOLOGY / PATENTS**

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Electro chlorination system using a self cleaning mechanism

## **HISTORY / ASSETS / AWARDS / SPECIALS**

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**Koen Van Aken, PhD**  
CEO

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**Country** Belgium  
**Phone** +32 492 508 061  
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**Skype** CREAFL0W  
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## **WE ARE OFFERING**

Creaflow offers innovative and scalable continuous-flow reactors for a wide variety of chemistries. Currently, reactors in stainless steel and Hastelloy with a transparent window (borosilicate or quartz) are available.

## **WE ARE LOOKING FOR**

Creaflow is looking for companies who are planning to install multi-purpose or dedicated continuous-flow reactors on lab- or pilot-scale, or to co-develop a reactor tailored to their applications. For the latter, Creaflow can also act as an R&D partner in (European) scientific consortia.

## **PRODUCTS, SERVICES / PROTOTYPES / PROOF-OF-PRINCIPLE**

The first product available on the market is the lab-scale HANU-reactor, a system specifically designed for scalable photochemistry (see <http://www.creaflow.be/video-hanu-reactor> for a one-minute video). The reactor is available in stainless steel or Hastelloy with both borosilicate and quartz as materials for the transparent window. Future developments involve design and construction of continuous-flow reactors suitable for multiphase reactions and alternative activation technologies in lab and pilot scale.

## **TECHNOLOGY / PATENTS**

The HANU-reactor is a pulsating plate reactor with static mixing elements in a linear process channel. This patented design gives access to several unique features, such as mixing intensity independency from flow rate, linear scalability by broadening the process channel, superior multiphase behavior and numerous customization possibilities. The visual inspection of the entire reaction mixture at every conversion point or analysis via a non-invasive, through-window method makes it also an invaluable process development tool.

## **HISTORY / ASSETS / AWARDS / SPECIALS**

Creaflow, as a start-up incorporated in May 2018, originates from a joint research and development program between EcoSynth NV and Ajinomoto Bio-Pharma Services to develop a wide range of scalable continuous-flow reactors with the ambition to address unmet needs in the market.



# CRYSTALS FIRST



**Dr. Serghei Glinca**  
Co-Founder & CEO

<b>Name</b>	CrystalsFirst GmbH
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<b>Phone</b>	+49 176 675 367 73
<b>Email</b>	serghei.glinca@crystalsfirst.com
<b>Skype</b>	s.glinca
<b>Website</b>	www.crystalsfirst.com

## WE ARE OFFERING

1. SmartSoak®-Screening for hit finding and fragment-based lead discovery 2. Enhanced structural biology platform for hit-to-lead campaigns and medicinal chemistry.

## WE ARE LOOKING FOR

Collaborations for fragment-based lead discovery for rapid hit and lead generation; bioactive compounds, which would benefit from validation of compound's mode of action.

## PRODUCTS, SERVICES / PROTOTYPES / PROOF-OF-PRINCIPLE

Fragment screening by X-ray crystallography

SmartSoak®-technology has been validated on (methyl)transferases, kinases, proteases and disordered proteins. The co-structure determination process - from protein crystals to 3D model - is accelerated by the factor of 5 to 10. Our existing client portfolio comprises pharma companies in Europe and biotech companies in the USA and Asia.

## TECHNOLOGY / PATENTS

SmartSoak® is CrystalsFirst's proprietary technology with pending patents.

## HISTORY / ASSETS / AWARDS / SPECIALS

CrystalsFirst is a VC-backed spin-off company of the renowned research lab of Prof. Klebe in Marburg. Its award-winning business model and technology positions CrystalsFirst as an unrivalled expert in handling of protein crystals, compound library design, and automated analysis of structural data.



**DataHow AG**

A Spin-off Company from ETH



**Dr. Michael Sokolov**  
COO

<b>Name</b>	DataHow AG
<b>Address</b>	Vladimir-Prelog-Weg 1
<b>Postal Code/City</b>	8093 Zurich
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<b>Phone</b>	+41 44 633 77 56
<b>Email</b>	m.sokolov@datahow.ch
<b>Skype</b>	-
<b>Website</b>	www.datahow.ch

## **WE ARE OFFERING**

We offer digital solutions and consulting for monitoring, optimization, automation, control and scale-up of chemical and bioprocesses. Our goal is to reduce the effort, risks and costs in process development and manufacturing as well as to gain deep understanding of the complex processes.

## **WE ARE LOOKING FOR**

We are looking for customers and partners sharing our future vision where big data analytics and digitalization are at the heart of process excellence. We are interested in feasibility projects to evaluate our solutions and long-term partnerships for the integration of the technology on site.

## **PRODUCTS, SERVICES / PROTOTYPES / PROOF-OF-PRINCIPLE**

We offer various services for clients including small companies to large industrial players facing the challenge to produce goods through complex chemical and biotechnological processes. Our software technology, DataHowLab, is based on versatile solutions developed throughout several years of collaboration with leading companies mainly in the biopharmaceutical and chemistry sector.

## **TECHNOLOGY / PATENTS**

Our innovative model-based technology transforms process expertise and process data into a wide range of applications in development and manufacturing and enables a solid basis for decision-making and automation. License-based software solutions are being developed for clients from the process industry as well as for suppliers of complementary hardware and software solutions. With our strong partner network we are keen to digitalize and intensify your processes!

## **HISTORY / ASSETS / AWARDS / SPECIALS**

We emerged as a spin-off company from ETH Zurich in 2017.

In 2018 we were selected as one of 40 best high-tech start-up companies in Europe



CARRIERS TO BRING YOUR DRUG TO THE TARGET.



**Michael Unbehauen**  
Head of Organic Synthesis

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**Skype** -  
**Website** www.dendropharm.de

## WE ARE OFFERING

We are experts in polymer synthesis and functionalization. DendroPharm GmbH owns a platform technology to deliver small molecular drugs into the skin and transdermally. We also offer a technology to deliver drugs into inflamed tissue targeting peripheral pain. Our technology is based on biocompatible nano-polymers.

## WE ARE LOOKING FOR

We are looking for strategic partners to jointly develop our portfolio and platform technology. We are also looking for a strategic or financial investor to bring our non-addictive, non-sedative nano-opiate through clinical stages and into the US market to solve the ongoing opioid crisis.

## PRODUCTS, SERVICES / PROTOTYPES / PROOF-OF-PRINCIPLE

Products and services: Synthesis, functionalization and purification of (nano) polymers under GMP conditions. Synthesis of drug and dye conjugates. Formulation development, clinical studies for veterinary applications, regulatory affairs. We have successfully applied our technology for skin penetration both in-vitro and in clinical studies in the veterinary field and have proven our inflammation targeting technology in mouse and rat models in-vivo.

## TECHNOLOGY / PATENTS

Patent granted for CMS nanomaterials (prio 2004) and patent pending for nano-opiate (prio 2015), multi-dosage applicator for dermal delivery of 40 µl doses of semi-solids (prio 2015).

## HISTORY / ASSETS / AWARDS / SPECIALS

Founded 2013. Achieved awards in the Science4life and Business Plan Wettbewerb Berlin Brandenburg, was awarded the Innovationspreis Berlin Brandenburg in 2016. DendroPharm has been ISO 9001 certified since 2015 and is currently pursuing GMP certification. GMP production facilities will be ready by April 2019.



# D I V E



**Pierre Sabrowski**  
CEO

**Name** dive solutions GmbH  
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**Country** Germany  
**Phone** +49 151 27023186  
**Email** sabrowski@dive-solutions.de  
**Skype** -  
**Website** www.dive-solutions.de

## **WE ARE OFFERING**

We create world-class software from the cloud to help engineers design better products every day.

## **WE ARE LOOKING FOR**

We look for pilot projects in the chemical industry to convince potential customers of our softwares capabilities and be part of our upcoming release. Furthermore, investors that want to be part of our growth are welcome to learn about our business and our next steps.

## **PRODUCTS, SERVICES / PROTOTYPES / PROOF-OF-PRINCIPLE**

We develop a cloud-based software for the simulation of fluid flows. Our cross-industry solution enables product designers to analyze their products regarding flow efficiency. The user creates a digital prototype and simulates fluid flows with the goal of optimizing existing or create completely new designs. The method we use varies from conventional approaches and comes with a set of important advantages for the user:

## **TECHNOLOGY / PATENTS**

Preparation time is heavily reduced by "meshless" particle-based technologies, Hardware is provided through the Cloud to minimize system requirements, Entry barriers are eliminated by introducing Engineering Software as a Service.

## **HISTORY / ASSETS / AWARDS / SPECIALS**

Since 2011, the research cooperation between BSH Hausgeräte GmbH, Technische Universität Berlin, Hochschule für Technik und Wirtschaft Berlin and Beuth Hochschule für Technik Berlin is developing models to simulate flow processes in the washing machine. After years of research, the award-winning dive solutions GmbH was established as a spin-off from that cooperation. The mission: Bring the latest advances of modern simulation technologies to the industry.



**Rule Niederstadt**  
**Geschäftsführer**

**Name** Ecoatech GmbH  
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**Country** Germany  
**Phone** +49 821 4550340  
**Email** niederstadt@ecoatech.com  
**Skype** -  
**Website** www.ecoatech.com

## **WE ARE OFFERING**

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We are offering ecological flame retardants for application in wet processes as often used in the paper, textile, composite or wood-fibre industry. All products provide from own developments and we are able to modify or optimize specific parameters, which are important for the performance of customers products.

## **WE ARE LOOKING FOR**

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We are looking for industrial companies that need to pass flame protection standards but especially if at the same time ecological performance is required.

## **PRODUCTS, SERVICES / PROTOTYPES / PROOF-OF-PRINCIPLE**

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Biodegradable flame retardants that are halogen-free, solvent-free, not listed on the EU SVH list

Products suitable for spray application

Ammonia-free flame retardants with sustainable effects

Reactive flame retardants for cross-linking with isocyanates;

## **TECHNOLOGY / PATENTS**

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Ready to use flame retardants for various end uses • Production technology • Application technology • Surface technology • Hydrophobing agents • Laboratory capacity for customer projects • Large choice of raw materials and non-commercial substances for specific effects

## **HISTORY / ASSETS / AWARDS / SPECIALS**

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Achievements: DIN 4102 B1 für Textilien bei Verwendung von ECOAPHOS ASU auf Baumwolle und Polyester • Ausrüstung von Flammenschutztapeten gem. DIN 4102 B1/SBI • Flammenschutz für Wärmedämmung aus Holzfasern • Flammschutz zum Aufdrucken auf Papier mittels Flexodruck • Flammenschutz für Wellpappe mittels Auftrag Leimpresse • Flammschutz für den Sprayauftrag auf saugenden Materialien



**Dr. Jean-Baptiste Joos**  
COO

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**Skype** -  
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## **WE ARE OFFERING**

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Ecosynth is a contract research supplier and open innovation partner. We offer innovative, tailor-made chemical solutions for the chemical, pharmaceutical and related industries with focus on sustainable chemistry.

## **WE ARE LOOKING FOR**

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Target customers are companies in need of chemical R&D, including both multinational companies and local SMEs.

## **PRODUCTS, SERVICES / PROTOTYPES / PROOF-OF-PRINCIPLE**

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EcoSynth is offering services in custom synthesis, protocol improvement, route scouting, process intensification, new process development and chemical stability. New molecule development and early phase development of new processes are optionally based on bio based starting materials. In this respect, attention is also paid to side stream valorization, i.e. the chemical transformation of waste material from processes into valuable useful chemicals.

## **TECHNOLOGY / PATENTS**

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EcoSynth's proprietary activities are focused on sustainable chemistry. Catalysis as a way to reduce the energy demand, photochemistry as an ecological activation mode, and flow chemistry for intensified processing are subject of own R&D efforts. In combination with development of procedures to convert bio based raw materials into functional chemicals, EcoSynth aims to implement its knowledge in green chemistry and sustainable processing into contract research projects.

## **HISTORY / ASSETS / AWARDS / SPECIALS**

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Initially founded as a chemical consultancy company in 2001, EcoSynth gradually developed into a provider of chemical contract research. As the company gained momentum, EcoSynth moved in 2017 its operations to a new research facility in Deinze near Ghent. This state-of-the-art infrastructure will catalyze further development of the contract research services and expansion of the client base throughout Europe.



## Enantis



**Alzbeta Cardova, PhD,  
Sales & Marketing Manager**

<b>Name</b>	Enantis s.r.o.
<b>Address</b>	INBIT, Kamenice 34
<b>Postal Code/City</b>	625 00 Brno
<b>Country</b>	Czech Republic
<b>Phone</b>	+420 773 279 704
<b>Email</b>	enantis@enantis.com
<b>Skype</b>	-
<b>Website</b>	www.enantis.com

### **WE ARE OFFERING**

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We offer a unique platform technology to engineer high performing proteins, enzymes and synthetic pathways engineered for our clients.

### **WE ARE LOOKING FOR**

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We are looking to engage medium and large companies. We are particularly interested in co-development of new products for the bio-based sector and in new clients that would like to use our skills to improve their current proteins or enzymes.

### **PRODUCTS, SERVICES / PROTOTYPES / PROOF-OF-PRINCIPLE**

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We span from stabilization of proteins for medical application to the enhancement of enzymes for industrial production of chemicals. We have developed a series of custom novel enzymes specifically tailored to efficiently remove toxic compounds from animal feed, thus allowing a more efficient use of raw materials. We have also engineered a set of haloalkane dehalogenases with enhanced biocatalytic activities aimed for recycling of by-products from chemical processes and bioremediation.

### **TECHNOLOGY / PATENTS**

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Patent: Thermostable FGF2 Polypeptide, Use thereof. Masaryk University and Enantis, s.r.o., Brno, Czech Republic. Patent application WO2017089016A1

### **HISTORY / ASSETS / AWARDS / SPECIALS**

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In 2017, we were awarded with a Horizon 2020 SME Instrument phase 2 grant. Enantis is the only Czech company to receive both phase 1 and phase 2 SME Instrument grant. In 2018, we signed an exclusive license agreement with a major corporation to sell FGF2-STAB in the stem cell research and stem cell therapy market. In 2019, we are planning to sign another license agreement for our second product FGF10-STAB.



# ENDOTHERM

## LIFE SCIENCE MOLECULES



**Dr. Lars Kattner**  
GF

**Name** Endotherm GmbH  
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**Country** Germany  
**Phone** +49 681 394 675 70  
**Email** lars.kattner@endotherm.de  
**Skype** lars.kattner  
**Website** www.endotherm-lsm.com

### WE ARE OFFERING

Research chemicals mainly used for medicinal and clinical chemistry.

### WE ARE LOOKING FOR

Customers and collaborators for research projects having a demand for research chemicals and chemistry support in medicinal or clinical chemistry.

### PRODUCTS, SERVICES / PROTOTYPES / PROOF-OF-PRINCIPLE

Products: compound libraries, fluorescent probes, vitamin D metabolites, steroids, small molecule biomarkers (stable isotopes, partly labeled by D, <sup>13</sup>C or <sup>15</sup>N), coenzyme A esters, pharmaceutical substances (active pharmaceutical ingredients up to 250g, intermediates, impurities). Services: chemistry support for drug discovery (screening compounds, libraries, building blocks), diagnostics (biomarkers, labeled reference standards, fluorescent probes) and API-filing (reference standards, impurities, API's)

### TECHNOLOGY / PATENTS

Heterocyclic chemistry, Pd catalyzed reactions (Heck, Sonogashira, Suzuki etc.), natural product synthesis, stereoselective synthesis. Competence documented in numerous publications in synthetic, medicinal and clinical chemistry (Nature Communications, Science Translational Medicine, Circulation, JACS, Angewandte Chemie etc.) and patents (US patent filed for versatile synthesis of vitamin D metabolites).

### HISTORY / ASSETS / AWARDS / SPECIALS

Principal investigator of completed FP6 project EUGeneHeart and FP7 project EUTrigTreat as well as of the ongoing EUROSTARS project CystArrest. 2016, 2017, 2018: GHP International Life Sciences Award.



**Manuel Román**  
Founder

**Name** ENVIROHEMP SL  
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**Email** project@envirohemp.com  
**Skype** Po2012  
**Website** www.envirohemp.com

## **WE ARE OFFERING**

We are offering bio-based, high-grade porous carbons (aka Activated Carbons) tailored for niche applications with critical SPECs (Energy Storage in Supercapacitor & Batteries). Know-how related to Piloting and End-to-end Design of Industrial Process including Pyrolytic and Hydrothermal processing among other ancillary operations (Nutsche filter dryer, Granulating-press...).

## **WE ARE LOOKING FOR**

We are looking for potential end-users of our existing catalogue of materials (including both microporous and mesoporous carbons) as well as exploring synergies with new sectors, kick-starting new R&D cooperations with potential focus on H<sub>2</sub>O<sub>2</sub> funding. See [www.carestor.eu](http://www.carestor.eu) and [www.portablecrac.eu](http://www.portablecrac.eu)

## **PRODUCTS, SERVICES / PROTOTYPES / PROOF-OF-PRINCIPLE**

Products, Services / Prototypes / Proof-of-principle: Tailor-made Activated Carbons with diverse combination of high-end SPECs, Pilot and Pre-industrial facilities for product development at the kilogram scale combining pyrolysis (both batch and continuous) and hydrothermal treatment (high pressure reactors at 20L, 1.000L and 8.000L, last 2 currently under construction/conditioning), Prototypes (pioneer proof-of-concept) of continuous electrochemical regeneration of exhausted Activated Carbons.

## **TECHNOLOGY / PATENTS**

Technology / Patents: IP related to manufacturing and regeneration of Activated Carbons currently under internal evaluation within the scope of H<sub>2</sub>O<sub>2</sub> R&D projects.

## **HISTORY / ASSETS / AWARDS / SPECIALS**

History / Assets / Awards / Special. Extensive know-how on evolving lab-scale research and synthetic protocols based on the valorisation of biomass into Pilot and Industrial end-to-end manufacturing lines. All company assets and engineering background are currently offered to third parties for Toll-manufacturing and proof-of-concept of new processing based on advanced Pyrolysis and Hydrothermal Treatments. Facilities of 2.000sqmt for pre-industrial and pilot plants to validate technology and SPECS.



**Dr. Thomas Daußmann**  
EVP International Business

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**Website** www.enzymaster.com

## **WE ARE OFFERING**

Enzymaster is a solution provider for the development and commercialization of enzymatic and microbial catalysis. Our aim is to provide fine chemical, pharmaceutical and food & feed industries with processes that simultaneously cut production costs, establish new IP and raise sustainability.

## **WE ARE LOOKING FOR**

We are looking for sincere and mutually benefiting cooperation's with international partners to establish innovative biocatalytic processes throughout chemical and pharmaceutical industries. The ultimate target is to accomplish a win-win situation for our partners and the environment.

## **PRODUCTS, SERVICES / PROTOTYPES / PROOF-OF-PRINCIPLE**

Enzymaster offers R&D services over a diverse range of biocatalysis-related technologies with the establishment of complete technology transfer packages, ranging from enzyme panel screening and enzyme directed evolution, to enzyme preparation by fermentation, as well as the development of biocatalytic processes at scale. In addition, we offer enzyme and chemical custom manufacturing, at competitive prices.

## **TECHNOLOGY / PATENTS**

BioEngine® is our enzyme directed evolution platform, spearheaded by the integration of bioinformatics database guided design, computer protein modelling and simulations, as well as high throughput systems, thus highly efficient and reliable. The application of bioinformatics-assisted design and analysis of protein mutations leads to major time savings and higher success rates; whereas the automated and controlled laboratory procedures deliver higher accuracy and consistency of experimental results.

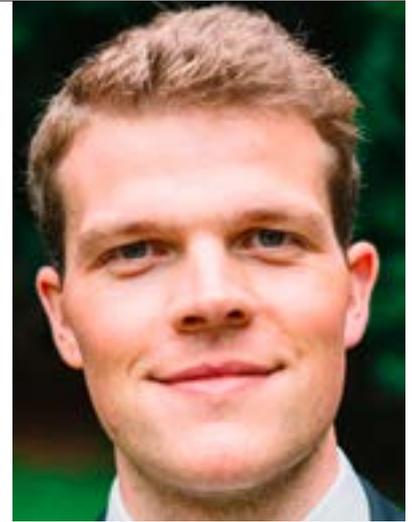
## **HISTORY / ASSETS / AWARDS / SPECIALS**

The parent company Enzymaster (Ningbo) Bio-Engineering Co., Ltd. was founded in Ningbo (China) in 2013 and has grown within five years to more than 100 employees. Our multinational team of scientists provides longstanding expertise in exploiting enzyme's often unmet catalytic power, regarding (stereo) selectivity and activity, by enzyme and process engineering. Its subsidiary Enzymaster Deutschland GmbH represents your partner in the international market for enzyme applications.



Decoding epigenetics

<b>Name</b>	EpiQMAx GmbH
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<b>Country</b>	Germany
<b>Phone</b>	+49 89 218071862
<b>Email</b>	voelker-albert@epiqmax.de
<b>Skype</b>	EpiQMAx
<b>Website</b>	www.epiqmax.com



**Dr. Moritz Völker-Albert**  
CEO and Co-founder

## **WE ARE OFFERING**

We are offering a full service for the quantitative analysis of posttranslational modifications (PTM's) of proteins by means of mass spectrometry. The spectrum of our services comprises sample preparation, measurement and subsequent data analysis and reporting.

## **WE ARE LOOKING FOR**

We are looking for networks and partners that are involved in drug development and the implementation of clinical assays for protein PTM's. Moreover, we would be interested in partners from the chemical industry that need validation of targets by means of mass spectrometry.

## **PRODUCTS, SERVICES / PROTOTYPES / PROOF-OF-PRINCIPLE**

We are developing a KIT that offers robust and cost-efficient preparation of samples for protein PTM's. By means of mass spectrometry, we provide a unique quantitative analysis of modifications. Finally, our service includes innovative software programs with a real-time processing status as well as an intuitive and visual reporting of the results.

## **TECHNOLOGY / PATENTS**

We operate a state-of-the art mass spectrometer to identify and quantify proteins. This offers us the possibility to measure proteins and peptides up to attomolar concentrations. Moreover, we have a long-standing expertise in protein quantification and the identification of novel protein modifications for drug development and biomarker studies.

## **HISTORY / ASSETS / AWARDS / SPECIALS**

We have been promoted successfully by the FLÜGGE funding from the Bavarian government and receive currently an EXIST scholarship . In addition, we have been awarded at the MIT:FUTURA 2018 StartUp Pitch for our innovative business idea.



**Dr. Tobias Gaertner**  
CEO

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**Skype** -  
**Website** www.esy-labs.de

## **WE ARE OFFERING**

- (1) Consulting in the field of chemical electrosynthesis in combination with biotech and chemtech;
- (2) Customer specific electrosynthesis of organic and inorganic fine and specialty chemicals;
- (3) Customer oriented R&D in electrosynthesis;

## **WE ARE LOOKING FOR**

Pharmaceutical as well as chemical companies searching for cost reduction potentials, chemical waste reduction potentials, on-demand-production potentials and integration potentials of renewable electricity in their chemical syntheses. Companies having inorganic waste streams for recycling.

## **PRODUCTS, SERVICES / PROTOTYPES / PROOF-OF-PRINCIPLE**

- (1) Scientific and technical feasibility studies; Consulting for viable electrolytic conditions, scalability, and concepts for downstream processing;
- (2) Custom synthesis (g - kg) according to known or established electrosynthetic methods; Selective electrosynthesis is offered in both, batch-type and flow electrolysis cells;
- (3) R&D to replace and/or abbreviate classical synthesis processes. Service: Initial screening, electrolysis optimization;

## **TECHNOLOGY / PATENTS**

Electroorganic and electroinorganic synthesis with integrated biotechnological as well as chemical catalysis reaction sequences;

## **HISTORY / ASSETS / AWARDS / SPECIALS**

ESy-Labs was founded in August 2018 by Prof. Dr. Waldvogel and Dr. Tobias Gärtner, consulted by Prof. Dr. Sieber, and is starting production in February 2019. Within the first half of 2019, ESy-Labs is building a demosite for electrosynthesis at a waste incineration plant. ESy-Labs has five staff members with scientific or technical backgrounds.



**Paul Ruschitzka, DI  
Bioprocessengineer**

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**Skype** -  
**Website** www.evologic-technologies.com

## **WE ARE OFFERING**

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A symbiotic fungi (AMF), acting as biostimulant has been selected as our first product to demonstrate the platform characteristics of our technologies for bioprocess development with hairy roots.

## **WE ARE LOOKING FOR**

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Evologic is raising a EUR 2.5 Mio seed financing round for the scaling and optimization of the hairy root production process

## **PRODUCTS, SERVICES / PROTOTYPES / PROOF-OF-PRINCIPLE**

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AMF as a symbiotic fungus can increase crop yields up to 20% and classifies as a biostimulant. While the biostimulant market (2 bn) is a niche subsegment of the crop protection market (51 bn) it grows rapidly (>10%). Transferring red biotech technologies to white/ green biotech products, AMF will be our first product in a series of follow up products based on our core technologies of HR production and process development.

## **TECHNOLOGY / PATENTS**

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Evologic has invented and filed for patent a new type of production technology for hairy roots (HR) and symbiotic fungi. Based on a bioreactor the production platform allowing the production of AMF in a 30.000x larger scale than the current state-of-the-art. At the current productivity the COG can be reduced by over 70% by scaling to industrial pilot scale.

## **HISTORY / ASSETS / AWARDS / SPECIALS**

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Evologic, a spin-off company from the Technical University of Vienna, is a highly rewarded project (Science to Business Award 2017, Mercur Award 2017) with public funding by AWS and FFG.



# EVOSCIENCES



**Dipl. Ing. Manuela Habeker**

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**Phone** +49 178 4016873  
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**Website** www.evosciences.de

## **WE ARE OFFERING**

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Financial services like leasing, operate lease and hire-purchase (Mietkauf) not only for KMU but also for start-up companies. We also offer factoring and reverse factoring (supply chain finance).

## **WE ARE LOOKING FOR**

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Start-up companies with the need to invest in expensive equipment, companies who are looking for alternative funding models or solutions to free up capital. VC's to co-operate in finding suitable leasing partners.

## **PRODUCTS, SERVICES / PROTOTYPES / PROOF-OF-PRINCIPLE**

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Evosciences is independent from banks or leasing companies. We have been in the finance market for many years and know the market. Our goal is to find the best leasing solution for the customer tailored to his financial needs.

## **TECHNOLOGY / PATENTS**

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## **HISTORY / ASSETS / AWARDS / SPECIALS**

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Evosciences Leasing GmbH is the German member of the international Evosciences Group, which is headquartered in France. EVOSCIENCES is present in, DACH, Benelux, Nordics, F, UK, I, E, P and India.




# Fraunhofer

## IME



**Hendrich Quitmann, M.Sc.,  
Head of Operations**

<b>Name</b>	Fraunhofer Institute for Molecular Biology and Applied Ecology, Branch of Bioresources (IME-BR)
<b>Address</b>	Winchester Str. 2
<b>Postal Code/City</b>	35394 Giessen
<b>Country</b>	Germany
<b>Phone</b>	+49 641 993 952 5
<b>Email</b>	hendrich.quitmann@ime.fraunhofer.de
<b>Skype</b>	-
<b>Website</b>	www.ime.fraunhofer.de

## WE ARE OFFERING

By consulting, contractual work and applied research collaborations, we offer our know-how, access to our unique bioresources, and state-of-the-art technologies to our partners.

## WE ARE LOOKING FOR

We are looking for partnerships to invent, develop and commercialize new bio-based products, processes and services by using our particular pool of bioresources.

## PRODUCTS, SERVICES / PROTOTYPES / PROOF-OF-PRINCIPLE

The Fraunhofer IME-BR, with its six divisions, explores and develops natural products, enzymes and bio-base processes for the industrial biotechnology, food and animal feed, medicine and agro-industry. Our branch exploits the tremendous potential of evolutionary most successful bioresources – insects, fungi and bacteria. Combined with years of experience in the licensing process we ensure successful translation of our research projects to aspired commercial exploitation.

## TECHNOLOGY / PATENTS

We are the leading institution in insect biotechnology specialized on insect genomics, vector and pest control, insects as expression systems and exploitation of insect associated microorganisms. Moreover, we have expertise in natural product discovery (compound libraries, screening and analytics), special cultivation techniques and research on toxin producing animals. Since 2014, we generated a unique intellectual property portfolio and secured it by over 30 patents.

## HISTORY / ASSETS / AWARDS / SPECIALS

The Branch of Bioresources of the Fraunhofer Institute for Molecular Biology and Applied Ecology was founded in 2011. During the last 7 years, we conducted many successful and renowned R&D projects with our long-term industrial and academic partners with a volume of over 35 million euros. We are the major partner of the LOEWE-Centre for 'Insect Biotechnology' ([www.insekten-biotechnologie.de](http://www.insekten-biotechnologie.de)).



**G A I A**  
M E M B R A N E S



**Elian Pusceddu**  
**CEO**

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<b>Skype</b>	Gaia Membranes
<b>Website</b>	www.gaiamembranes.com

## **WE ARE OFFERING**

Gaia Membranes develops and supplies ion exchange membranes to make energy storage affordable. Our novel amphoteric membranes increase efficiency in Vanadium flow batteries by up to 20%.

## **WE ARE LOOKING FOR**

Investors seeking to support an early-stage hardware startup that reduces the cost of energy storage. Customers, i.e. manufacturers of electrochemical cells.

## **PRODUCTS, SERVICES / PROTOTYPES / PROOF-OF-PRINCIPLE**

Our first product is an amphoteric membrane that boosts the energy efficiency of Vanadium flow batteries. At the same time, it virtually eliminates capacity fading – our USP.

This technology is at the core of our growing portfolio of membranes that tackle the specific issues faced by manufacturers of electrolysers, fuel cells, and other chemical cells.

## **TECHNOLOGY / PATENTS**

Two patent applications are at the core of our product portfolio: EP patent EP18175340 and EP patent 2018P00973EP01.

## **HISTORY / ASSETS / AWARDS / SPECIALS**

A recent spin-off from ETH Zürich and the Paul Scherrer Institute, Gaia Membranes is supported by the PSI Founder Fellowship, BRIDGE Discovery funding by the Swiss National Science Foundation and Innosuisse, and is member of startup accelerators Climate-KIC and VentureKick.



**Geert Sergoyne**  
CEO

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<b>Phone</b>	+32 473 423 536
<b>Email</b>	Geert.sergoyne@gemsotec.com
<b>Skype</b>	-
<b>Website</b>	www.gemsotec.com

## **WE ARE OFFERING**

Gemsotec's mission is to make the industry reach the next level of operational excellence through the introduction of innovative and mobile solutions. Gemsotec allows to get rid of paperwork within operations, by offering a fully digitized solution. This enables safe, efficient and compliant operations.

## **WE ARE LOOKING FOR**

We are looking for chemical companies who share our vision to empower operators and technicians by giving them access to new technologies. Using smartphone or tablet people unlock the full potential of your assets. We want to accompany you on the journey towards smart and innovative operations.

## **PRODUCTS, SERVICES / PROTOTYPES / PROOF-OF-PRINCIPLE**

Gemsotec has several software products who have proven their value within operations. Gemsotec provides smart, augmented and mobile applications to execute inspections and procedures, to record issues and to manage tasks on smartphone and tablet. Employing the SaaS model, these products are implemented with a minimum of effort on your side. We start with a proof-of-concept to test the benefits and analyse your needs. This approach allows to digitize operations within your industry successfully.

## **TECHNOLOGY / PATENTS**

Gemsotec uses the latest state-of-the art Java-based and cloud-ready technologies. Our tech stack allows smooth offline availability, a real differentiator in the industry. Our abilities to connect to your existing digital assets allows us to augment the mobile applications with documents, pictures and other information. In addition, it is possible to view a map to localize an asset, or to use our web-based 2D or 3D viewer of CAD models. Gemsotec provides a comprehensive ecosystem of innovative applications.

## **HISTORY / ASSETS / AWARDS / SPECIALS**

Gemsotec has been founded mid 2017 by three engineers with 30 years of cumulative experience in chemical operations, enterprise software development and innovation. This team understands your business and can translate it into applications tailored to its needs. The innovative approach and importance of the challenges have been awarded with a subsidy by the Flemish authorities. Gemsotec has been selected by KBC bank to access their accelerator program.

# graanul invest



**Peep Pitk**  
R&D Manager

<b>Name</b>	Graanul Invest AS
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<b>Email</b>	Peep.pitk@graanulinvest.com
<b>Skype</b>	-
<b>Website</b>	www.graanulinvest.com

## **WE ARE OFFERING**

Currently building-up an industrial hardwood fractionation flag-ship plant to start production of 2nd generation lignocellulosic sugars and high-purity (near native) lignin in Q2 2020. Industrially representative samples available for analysis and application testing already now.

## **WE ARE LOOKING FOR**

Industrial application partners for lignin and lignocellulosic sugars downstream processing and derived end-products development. Open for partnership for industrial applications oriented H<sub>2</sub>O<sub>2</sub> projects.

## **PRODUCTS, SERVICES / PROTOTYPES / PROOF-OF-PRINCIPLE**

High-purity lignin – without smell biomaterial to be used in phenol replacement and as component in construction foams, different resins, thermoplastics, biocomposites, activated carbon etc. Glucose and xylose enriched sugar– substrate for the production of diversity of fermentation products like biofuels, biochemicals, single cell protein, intermediate building blocks for bioplastics etc.

## **TECHNOLOGY / PATENTS**

Scaling up a first-of-a-kind wood fractionation technology with target to become reliable supplier of lignocellulosic sugars and high-purity lignin. Certified wood based biomaterials with minimized environmental footprint.

## **HISTORY / ASSETS / AWARDS / SPECIALS**

Graanul Invest has 15 years of wood processing knowledge that has allowed to become world's leading wood pellet producer. Following the principles and criteria of the most acknowledged sustainable forest management systems.



ENERGY & CHEMISTRY  
SPONSORED BY  
INNOENERGY

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**Email** mamoun.taher@graphmatech.com  
**Skype** -  
**Website** www.graphmatech.com

**Dr. Mamoun Taher**  
CEO and Founder

## **WE ARE OFFERING**

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Polymer Graphene composites (Shielding, mechanical components, filaments, batteries packs) Metal-Graphene composites (electrical contacts, corrosion resistance, wear resistance).

## **WE ARE LOOKING FOR**

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European customers/partners

## **PRODUCTS, SERVICES / PROTOTYPES / PROOF-OF-PRINCIPLE**

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Electrically and thermally conductive plastics, electrical contacts, thermal interface materials, active additives for batteries and supercapacitors

## **TECHNOLOGY / PATENTS**

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## **HISTORY / ASSETS / AWARDS / SPECIALS**

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A spin-off from Uppsala University in Sweden. Awarded the nanotech company of Nordics in 2018. In the top 10 cleantech companies in the Nordics. Secured investment from ABB Innoenergy, and Walerud Ventures. 9 Full-time employees.



# GREEN SPORTS ALLIANCE

**Name** Green Sports Alliance Japan  
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**Country** Japan  
**Phone** +81 3 6453 8625  
**Email** haruki.sawada@greensportsalliancejp.org  
**Skype** -  
**Website** www.greensportsalliancejp.org



**Haruki Sawada,  
Executive Director**

## **WE ARE OFFERING**

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Analytical service to detect neurotransmitters contained in breath within 15 minutes.

## **WE ARE LOOKING FOR**

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We are looking for partnership and collaboration that can help strengthen the potentiality of breath analysis further and conduct joint research and development from many other aspects

## **PRODUCTS, SERVICES / PROTOTYPES / PROOF-OF-PRINCIPLE**

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We provide analytical information on the movement of neurotransmitters contained in breath. Data has been collected from athletes over the past 3 years, and neurotransmitters, which cannot be detected in gas chromatography analysis, have been confirmed.

## **TECHNOLOGY / PATENTS**

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Patented breath analysis equipment, and patented analytical method.

## **HISTORY / ASSETS / AWARDS / SPECIALS**

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Green Sports Alliance Japan is a social venture who develops impact program/projects to promote sustainability and wellness in community through power of Sports. With 3-year period of initial research, we are currently underway to establish a new business entity aside.



**HQS**  
QUANTUM  
SIMULATIONS



**Dr. Iris Schwenk**  
COO, R&D, Co-Founder

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**Country** Germany  
**Phone** +49 0151 127 49 406  
**Email** schwenk@quantumsimulations.de  
**Skype** -  
**Website** www.quantumsimulations.de

## **WE ARE OFFERING**

We are offering individualized simulation solutions with a focus on quantum computing compatibility. Our individual simulation solutions offer highly accurate results in the quantum regime and can span up to three orders of magnitude.

## **WE ARE LOOKING FOR**

We are looking for companies interested in accelerating material and process development through simulation.

## **PRODUCTS, SERVICES / PROTOTYPES / PROOF-OF-PRINCIPLE**

Our simulation toolbox covers QM/MM over all scales, from molecular dynamics all the way to post-Hartree methods. Simulation speed can be increased by keeping the quantum zone in QM/MM as small as possible. We integrate our individualized microscopic simulation toolbox into any existing development work flow and offer training on all tools. In perspective all our tools will allow simple integration of quantum computers.

## **TECHNOLOGY / PATENTS**

HQS uses software exclusively licensed by KIT. HQS software tools allow atomistic simulations on near-term quantum computers.

## **HISTORY / ASSETS / AWARDS / SPECIALS**

We are a start-up company from Karlsruhe, Germany and a spin-off from the Karlsruhe Institute of Technology (KIT). Our team combines great expertise in quantum computing, solid state physics, and quantum chemistry with hands-on experience in consulting and customer projects.

HQS won the Cyberchampions Award in 2018.



**Markus Meininger**  
Data Scientist/Developer

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**Skype** -  
**Website** www.ida-analytics.de

## **WE ARE OFFERING**

Intelligent Data Analytics (IDA) for Chemical Production provides solutions to achieve higher quality, increased yields, optimized process times and predictive maintenance. We link strategies with new technical possibilities and design, develop and operate innovative software and system solutions.

## **WE ARE LOOKING FOR**

We are looking for clients in the chemical, pharmaceutical and connected industry with use cases for data integration and process analyzation and optimization.

## **PRODUCTS, SERVICES / PROTOTYPES / PROOF-OF-PRINCIPLE**

IDA's focus is on Smart Data Analytics, Industry 4.0, Digital Transformation, Real-Time Streaming Analytics and Big Data Service Orchestration. Our framework Moira is connected to existing data sources such as PCS, databases or analog displays and records the data streams. Moira offers a variety of processing modules to analyze data, derive information or link data together. New rules or links can be introduced into the system manually, based on known business processes, or (semi) automatically.

## **TECHNOLOGY / PATENTS**

IDA's major innovation is the analysis framework Moira. Moira is an efficient state-of-the-art analysis backend based on complex event processing (CEP) technology for real-time processing of massive data streams and machine learning to gain new insights. Moira provides a virtual data abstraction layer to connect data from different database architectures as well as event driven sources. Data streams can be visualized and evaluated in real-time and results can be displayed in various dashboards.

## **HISTORY / ASSETS / AWARDS / SPECIALS**

IDA was found in 2017 and has about 60 employees in Frankfurt, Marburg and Hamburg. IDA is 100% owner-managed and was able to win partners like SAP, Cisco and Lufthansa Systems.



**Hans-Christian Fritsch**  
Geschäftsführer

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**Website** www.ilmsens.com

## **WE ARE OFFERING**

Our unique, patented and very fast measuring technique enables us to determine the specific "fingerprint" of a complex fluid. This information can be used to monitor a process in real-time, compare it to a reference value or even enable predictive solutions.

## **WE ARE LOOKING FOR**

We are looking for Partners, who can provide real world application scenarios and expertise in putting our sensors in a practical environment.

## **PRODUCTS, SERVICES / PROTOTYPES / PROOF-OF-PRINCIPLE**

Ilimsens offers in-flow and immersion probes that are able to detect the composition of a complex liquid. There are three possible setups: a) Monitoring (comparison of current results with previous measurements), b) Referencing (comparison with a reference or threshold value), and c) Analysis (building a prediction model and recognize possibly problematic situations before a problem arises).

This enables the predictive maintenance of a system by means of digitalizing and analyzing the status of your processes, effectively paving the way to an Industrial IoT.

## **TECHNOLOGY / PATENTS**

Measurements are conducted by using our patented ultra-wideband impedance spectroscopy. Our measurement probe is immersed into the liquid and a 'fingerprint' of the liquid can be gained. This is possible by transmitting and receiving electromagnetic fields through the liquid with the probes. The probes detect the specific material parameters of the liquids and also if these parameters change unexpectedly.

## **HISTORY / ASSETS / AWARDS / SPECIALS**

Ilimsens is a spin-off company of the Technische Universität Ilmenau and holds know-how in the areas of Software and System Design, ASIC design, Mixed Signal and PCB Design.

2015-2017 EXIST Research Transfer, 2016 Company Foundation (five founders), 2018 Growth, number of employees doubled, Seed investment

Science4Life Venture Cup 2016 (Concept Phase)



**Dr. Fraser Brown**  
**Head of Chemistry**

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<b>Address</b>	Roslin Innovation Centre, Charnock Bradley Building, Easter Bush Campus, Bush Farm Road
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<b>Email</b>	fraser.brown@ingenza.com
<b>Skype</b>	-
<b>Website</b>	www.ingenza.com

## **WE ARE OFFERING**

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Ingenza is a world leader in the application of industrial biotechnology and synthetic biology. Our approach is based on the power of integrating our expertise in molecular biology, fermentation and process chemistry.

## **WE ARE LOOKING FOR**

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We are interested in meeting potential customers who require assistance in developing sustainable bioprocesses for the manufacture of chemicals, biologics, pharmaceuticals and biofuels from sustainable sources.

## **PRODUCTS, SERVICES / PROTOTYPES / PROOF-OF-PRINCIPLE**

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Our capabilities include strain engineering and bioprocess optimisation; discovery, production and molecular evolution of biocatalysts, high throughput screening, enzymology, fed-batch fermentation and synthetic and analytical chemistry.

## **TECHNOLOGY / PATENTS**

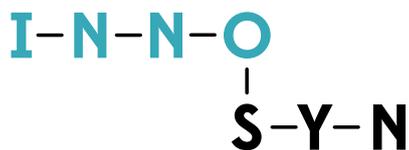
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Our proprietary inABLE technology for combinatorial DNA assembly greatly accelerates bioprocess development through predictable recombinant protein synthesis, enzyme evolution and metabolic pathway engineering for commercial applications.

## **HISTORY / ASSETS / AWARDS / SPECIALS**

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Originally founded in 2002 as a spin out company from Edinburgh University, Ingenza currently employs over 40 staff who help provide cutting edge solutions towards the successful commercialisation of microbial production technologies. We were named Innovator of the Year 2017 at the Made in Scotland awards and finalist in the Life Sciences Company of the Year in recognition of the innovative approach we use in applying industrial biotechnology to tackle commercial challenges across different business sectors.



Tomorrow's chemistry. Today.

**Name** InnoSyn B.V.  
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**Skype** -  
**Website** www.innosyn.com



**Dr. Iwona Kaluzna**  
**Marketing & Sales Director**

## **WE ARE OFFERING**

InnoSyn offers R&D services for all phases of process/product/technology development starting from idea generation all the way to running business. We have a proven track record in delivering best-in-class solutions by integration of multidisciplinary teams in every aspect of our services.

## **WE ARE LOOKING FOR**

We are looking for companies who would need help in inventing a new chemical routes/products or improving existing processes/products by using state-of-the-art technologies available at InnoSyn.

## **PRODUCTS, SERVICES / PROTOTYPES / PROOF-OF-PRINCIPLE**

We invent and improve new and optimized cost-effective processes for the pharmaceutical as well as for fine- and specialty chemical industry. Recently we have introduced 3-D printed metal flow reactors giving the maximal flexibility to design the ideal assets for our customer's most challenging reactions (e.g. hazardous chemistry, with selectivity issue, etc.).

## **TECHNOLOGY / PATENTS**

Technology: The over 25 years of experience and history as chemical R&D group at DSM (both fundamental research & chemical process design) has resulted in a broad synthetical competence base, using the most innovative technologies such as biocatalysis, chemocatalysis, flow chemistry, crystallization, photochemistry and circular economy.

## **HISTORY / ASSETS / AWARDS / SPECIALS**

InnoSyn is a spin-out of R&D department from a large company into an independent chemical R&D service provider. InnoSyn offers a team of passionate & experienced problem solvers, applying innovative and cost-efficient technologies to advance competitiveness of our customers across the (fine) chemical industries. InnoSyn has a new name, however, over 25 years of experience and history as chemical R&D group at DSM, both fundamental and process research. Track record in successful development and implementation of new and improved processes to chemicals for all market segments.



# INOFEA

empowering enzymes



**Dr. Anne Timm**  
CBO

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## **WE ARE OFFERING**

INOFEA empowers enzymes. We have developed a unique and patented platform technology called enzzen® to fit enzymes to in vivo and process conditions and provide them with remarkable resistance to harsh conditions, such as acidity, heat, solvents, chaotropic agents, physical stress, etc.

## **WE ARE LOOKING FOR**

We are looking for partners being active in the pharmaceutical and chemical field who would benefit from greater efficiency using our immobilized and shielded but active enzymes (i.e. in processes which are not suitable for free enzymes, or where our enzyme-shield can mimic certain process conditions).

## **PRODUCTS, SERVICES / PROTOTYPES / PROOF-OF-PRINCIPLE**

We immobilize and shield all kind of enzymes depending on the demand of our customers. In addition to selling these enzymes to pharmaceutical and industrial markets, we perform proof of concept studies to show the benefits of our technology (examples: bioanalysis/biomarker identification, bioconjugation (ADC), consumer care, processing & producing companies)..

## **TECHNOLOGY / PATENTS**

Biocatalytic Composition, WO2015/014888B1; Preparation of a molecular recognition element WO2012/034946; Method of producing nano-biocatalysts WO2014/118247; Method of reversibility functionalizing a solid surface WO2016/177688

## **HISTORY / ASSETS / AWARDS / SPECIALS**

INOFEA AG was founded 2014 and has completed a Series A+ financing round with private investors in Switzerland, following the Series A some years ago. INOFEA is included in the Top100 start-ups in Switzerland.



**Dr. Ralf Duempelmann**  
CEO and Founder

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## **WE ARE OFFERING**

We are offering a unique surface characterization of particles and fibers based on the molecular sensing by 15-20 different gas probes. Customers are pharma industry (excipients, APIs) and specialty chemistry (fillers, battery materials, fibers, pigments, catalysts, concrete).

## **WE ARE LOOKING FOR**

We are looking for materials which cannot be sufficiently characterized standard analysis as BET, XRD and alike. Our customers want to understand why their materials behave differently despite being well into specification and no differences in standards analytics – we deliver answers!

## **PRODUCTS, SERVICES / PROTOTYPES / PROOF-OF-PRINCIPLE**

Our customers gain insights about physical-chemical properties of particles, fibres, polymers, porous materials and other products: surface energies, nano-morphology, surface polarities and acid/base properties, Hansen Solubility Parameters (HSP) and diffusion coefficients. In addition, we offer other sophisticated analysis – depending on the needs.

## **TECHNOLOGY / PATENTS**

Key technologies: Inverse Gas Chromatography (IGC) – surfaces are „sensed“ by 15-20 probe molecules. This technology is used by many large companies as customers.

Additional services: 3D Micro- and Nanotomography, Surface Mass Spectroscopy (ToF SIMS), Photoelectron spectroscopy (XPS), plus standard chemical analysis and material testing.

Strong network: 10 collaboration partners with best-in-class practises and expertises.

## **HISTORY / ASSETS / AWARDS / SPECIALS**

Experience: 20 years experience as R&D director in the Special Chemistry Industry working in many different applications. Sandmeyer Award 2013.

Passion and believe: analytical methods, especially for surfaces, are unknown but can deliver most valuable insights about performances. Inolytix was founded 2014 to offer the industry a good way to explore unfamiliar analytical methods – in other words: decrease the activation energy, react faster!



**Friedrich Barth**  
Managing Director

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## **WE ARE OFFERING**

The International Sustainable Chemistry Collaborative Centre is a new independent, international centre promoting sustainable chemistry solutions worldwide. ISC<sub>3</sub> provides a platform for policy, civil society, industry and academia to develop new innovative solutions for the most pressing problems of our time. The centre acts as a global innovation accelerator, think tank and knowledge broker.

## **WE ARE LOOKING FOR**

We are looking for ideators, early-stage innovators and growing start-ups in the chemistry space striving for sustainable solutions to engage in projects and/or become part of our global start-up service. We are also looking for large chemical enterprises and downstream sector companies using chemicals to participate in our endeavour in transforming chemistry.

## **PRODUCTS, SERVICES / PROTOTYPES / PROOF-OF-PRINCIPLE**

Central service offer is the ISC3 Global Start-up Service (GSS), which provides tailored support of entrepreneurs along the entire innovation chain. ISC3 is also preparing a dedicated public-private Sustainable Chemistry Fund that will allow financing of start-ups active in the field of sustainable chemistry.

## **TECHNOLOGY / PATENTS**

## **HISTORY / ASSETS / AWARDS / SPECIALS**

ISC<sub>3</sub> will launch their 2019 Innovation Award in May 2019. The award is open for start-ups presenting an innovation substantially contributing to the UN sustainable developments goals. Finalist will get direct access to the customized Global Start-up Service support of ISC<sub>3</sub>, the award winner will also receive an award price of 25.000 €.



**Julien Noël**

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## **WE ARE OFFERING**

Isle is a global independent technology and innovation consultancy with a strong track record in identifying and accelerating the market uptake of innovative technology solutions. Isle acts as a facilitator between technology developers (typically start-ups and SMEs), industry end-users and investors to bring technologies to life.

## **WE ARE LOOKING FOR**

Partners, clients and stakeholders from the chemical sector with interest in innovative technologies within the areas of water and waste treatment, recycling, energy and the environmental sector.

## **PRODUCTS, SERVICES / PROTOTYPES / PROOF-OF-PRINCIPLE**

Our core capabilities lies in Identifying and assessing novel technological solutions for industry end-users as well as qualifying and quantifying market opportunities for technology solutions. Facilitating relationships and collaborations to accelerate technology development and commercialisation is one of our key competences. We further manage and deliver innovation projects.

## **TECHNOLOGY / PATENTS**

Isle has technical expertise in municipal and industrial water and wastewater treatment and reuse, biosolids management including energy from waste processes, recycling as well the wider environmental sectors.

## **HISTORY / ASSETS / AWARDS / SPECIALS**

Isle is an independent strategic innovation consultancy that spun out Mouchel Ltd (UK) in 2010 with the aim of setting up a global innovation network, where technology developers (typically start-ups and SMEs), industry end-users and investors are brought together. We currently operate in Europe, North America, South America, South Africa, Australia, UAE and Singapore.



**Dr. Roland Geyer**  
**Head of Project Management**

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## **WE ARE OFFERING**

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lifespın offers advanced, efficient and affordable NMR-services, plus software solutions for automated NMR data analysis and AI based big data approaches, for the support of R&D, metabolomics, routine industrial use, in vitro diagnostics and quality control.

## **WE ARE LOOKING FOR**

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We are looking for analytical questions from all fields of life sciences, outsourcing of NMR analysis, project partners for joint method, software and database development and human sample material/clinical studies.

## **PRODUCTS, SERVICES / PROTOTYPES / PROOF-OF-PRINCIPLE**

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Our services and products comprise the quantitation of >70 metabolites in e.g. fermentation broth using the lifespınPROFILER, pharma QC for identity and purity of e.g. polyglycolides, accompanying breeding with thousands of samples per year using e.g. DandelionEYE or projects on blood bank screening, malting barley quality or arnica chemotypes. In addition, individual services and contract R&D, e.g. for metabolomics or diagnostics, are our daily work.

## **TECHNOLOGY / PATENTS**

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Highly automated and standardized NMR analysis combined with software for data processing and analysis, including IP-protected algorithms and artificial intelligence/database solutions

## **HISTORY / ASSETS / AWARDS / SPECIALS**

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Although the company is young (founded 2017), the experienced team of scientists has been collaborating for years. lifespın is located in the south-east German city of Regensburg where a historic mediterranean-style city center and UNESCO world heritage site meets high-tech life sciences industry.



**Dr. Oliver Uecke**  
**Head of Business Development and Finance**

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## **WE ARE OFFERING**

Lipotype delivers comprehensive, absolutely quantitative lipid analysis services for clinical and biological samples on a high-throughput scale for a wide range of customers including clinical researchers, pharma and biotech companies, food and cosmetics industry and academia.

## **WE ARE LOOKING FOR**

We are looking for customers and collaboration partners who are interested to utilize our innovative lipid analysis technology.

## **PRODUCTS, SERVICES / PROTOTYPES / PROOF-OF-PRINCIPLE**

The innovative Lipotype Shotgun Lipidomics Technology can be employed for lipid identification and absolute quantification for the cosmetics, biotechnology, pharma and food industry. For the first time, customers can analyze large sample numbers at reasonable cost in short time with ultra-broad coverage of lipids absolutely quantified to develop new products in medical, nutritional and cosmetics markets.

## **TECHNOLOGY / PATENTS**

Lipotype Shotgun Lipidomics technology routinely covers 30 different lipid classes on the level of lipid species or subspecies – in total more than 2300 individual lipids. Using lipid class-specific internal standards per analysis run, we deliver results expressed in absolute values. Utilizing lab automation, we offer delivery times of as less as two weeks. From organelles to organs, our technology supports the full range of sample types. All of this is reflected in numerous publications, applications and patents.

## **HISTORY / ASSETS / AWARDS / SPECIALS**

Lipotype is a leading lipidomics provider from the Kai Simons and Andrej Shevchenko labs of the Max-Planck-Institute of Molecular Cell Biology and Genetics in Dresden, Germany. Lipotype won the start-up competition 'futuresax' in 2013 and the innovation competition 'C3 Emerging Industries' in 2015. Lipotype is part of the IMI projects BEAt-DKD and RHAPSODY.



**Timur Sirman, M.Sc.**  
**Business Development**

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## **WE ARE OFFERING**

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We are offering magnetocaloric cooling aggregates for highly efficient refrigeration systems without the use of F-gases our harmful substances. With our technological knowledge, we can make your cooling systems ready for the future.

## **WE ARE LOOKING FOR**

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We are looking for development partners from the refrigeration industry to integrate our prototype into pilot systems and work on a small series. Moreover, we are interested in strategical investments in order to help us bring clean and efficient cooling on the market.

## **PRODUCTS, SERVICES / PROTOTYPES / PROOF-OF-PRINCIPLE**

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In the first step, we are developing a magnetic cooling prototype with 500 Watts for operation at room temperature. It will be designed to be integrated in a cooling truck or a cooling cabinet. Then, a second prototype with higher power capacity will be developed to operate clean and highly efficient air conditioning systems, heat pumps and server cooling systems.

## **TECHNOLOGY / PATENTS**

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With several years of experience from Technical University Darmstadt, we bring research into a working product. With Lanthanum-Iron-Silicon as our active cooling material, we have patented ways to build a stable and effective magnetocaloric regenerator.

## **HISTORY / ASSETS / AWARDS / SPECIALS**

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We are currently enrolled in the start-up fund EXIST-Forschungstransfer of the German Ministry of Economic Affairs and Energy (BMWi). We are priceholder of the German Science4Life Energy Award and the Science4Life Venture Cup and were awarded as TOP50 Start-ups 2018 (Für-Gründer.de). From Technical University Darmstadt, we were ranked as the no. 1 scientific business idea 2018.



**Thomas Benen PhD**  
**Sales Manager D-A-CH**

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## WE ARE OFFERING

We are offering innovative instruments to measure particles in their size, shape, and charge. Microtrac GmbH is a German subsidiary of Microtrac Inc, USA.

## WE ARE LOOKING FOR

We are looking for industrial partners as early adopters of two of our most recent developments:

- 1) In-line / In-situ size measurement of nanoparticles directly in a production reactor,
- 2) size and shape measurement of microparticles as suspensions, emulsions or dry powders

## PRODUCTS, SERVICES / PROTOTYPES / PROOF-OF-PRINCIPLE

- 1) Prototype: In-line nanoparticle measurement. Evaluation done by Technical University of Dresden. Application studies under way at University of Tuebingen and University of Essen-Duisburg, for production of nanoparticles by self-assembly or laser ablation, respectively.
- 2) Product introduction: Microtrac SYNC, simultaneous laser diffraction and image analysis, to measure shape of microparticles, or to detect overgrains of nano suspension.

## TECHNOLOGY / PATENTS

Patent groups:

- 1) Nanoparticle size measurement by 180° Dynamic Light Scattering, also under flow.
- 2) Simultaneous size and shape measurement by combined laser diffraction and dynamic image analysis,
- 3) 3D size&shape measurement of micro-/macroparticles with unique 3D dynamic image analysis.

## HISTORY / ASSETS / AWARDS / SPECIALS

Since its foundation in 1972 at the laser division at Leeds and Northrup, Microtrac is an innovator in the particle characterization business arena. Microtrac is an owned subsidiary of Nikkiso America, a member of the Nikkiso Group, a multinational manufacturing corporation with a 7,000+ global team. In 2013, Microtrac acquired Anatec, the leading provider of on-line process instruments based on dynamic image analysis.



Olav Birlem

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## WE ARE OFFERING

NanoWired developed the KlettWelding and KlettSintering joining processes, both based on our patented NanoWiring technology. They enable a pure metallic, permanently stable and strong interconnection between a variety of materials.

## WE ARE LOOKING FOR

NanoWired is looking for customers, partners and distributors. Especially for our new developed and patented KlettSintering Tape, we are looking for a distributor helping us to sell our tape as a consumable in different industrial branches.

## PRODUCTS, SERVICES / PROTOTYPES / PROOF-OF-PRINCIPLE

NanoWired offers its technology as a service or in case of the KlettSintering Tape as a consumable. The characteristics of the interconnection established with KlettSintering Tape are quite impressive: The interconnection is gas-tight, has a shear strength of at least 30 N/mm<sup>2</sup> and is temperature resistant up to more than 300 °C. The interconnection consists of pure copper, so no alloying will limit the electrical and mechanical performance of the joint.

## TECHNOLOGY / PATENTS

Our basic NanoWiring process is patented, as well as the KlettWelding and KlettSintering process. NanoWired has also protected the KlettWelding Tape by international patents.

## HISTORY / ASSETS / AWARDS / SPECIALS

NanoWired has won the Science4Life Venture Cup in 2016. 2017 the NanoWired GmbH was founded and has won several founder prizes like Hessen Ideen or the STEP award. Since 2018 NanoWired is funded by the Horizon 2020 SME Instrument. At the end of 2018, NanoWired moved to its new production facilities in Gernsheim, near Darmstadt.



# ORONTEC

the measurement and process experts



**Dr. Ulf Stalmach**  
Key Account Manager

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## **WE ARE OFFERING**

We measure, digitize and implement process improvements. ORONTEC's customers increase their productivity from the combination of measurement technology, software and process engineering.

## **WE ARE LOOKING FOR**

We are looking for companies interested in digitization, lab automation and process engineering, predominantly but not exclusively with relations to the paint industry.

## **PRODUCTS, SERVICES / PROTOTYPES / PROOF-OF-PRINCIPLE**

Q-Chain® LCM - Liquid Color Measurement  
 Q-Chain® Surface Scanner Automatic – automated measurement device for coated test panels  
 Q-Chain® PolyShear® - lab scale device to simulate shear stress in paint pipelines  
 Q-Chain® SuMo - automatic measurement and Evaluation of panels for corrosion testing  
 Q-Chain® Process AI – connecting the innovative devices provided by ORONTEC to the ERP system of the customer

## **TECHNOLOGY / PATENTS**

Our long term goal is the Intelligent Paint Factory, incorporating lean, automated smart processes with digitized tools and measurement devices enabling the human staff to focus on value-creating activities while increasing the overall productivity.

## **HISTORY / ASSETS / AWARDS / SPECIALS**

Founded in 2014 by Ralph Jan Wörheide and Hendrik Hustert, ORONTEC is serving the coating industry worldwide with 10 staff members. To date, more than 100 devices were delivered to more than 20 countries.



**Hans Keuken**  
CEO

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## **WE ARE OFFERING**

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PDC offers Artificial Intelligence in conceptual process design to realize cost and energy savings up to 20 - 50%!

## **WE ARE LOOKING FOR**

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We are looking for process industries, startups and technology investors who want to arrive at better, cheaper and more sustainable process.

## **PRODUCTS, SERVICES / PROTOTYPES / PROOF-OF-PRINCIPLE**

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PDC offers PROSYN® based services and recently we also started to license PROSYN®. PROSYN® has been used in >150 process development, conceptual design, and joint R&D projects with major players in the process industry realizing cost and energy savings up to 20 - 50%!

## **TECHNOLOGY / PATENTS**

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PROSYN® is one of the largest expert systems in the world offering a structured and systematic methodology to Conceptual Process Design and Process Synthesis.

## **HISTORY / ASSETS / AWARDS / SPECIALS**

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The development of PROSYN® started in the 1980s in a consortium with the German chemical industry (BASF, Bayer, Degussa, Hoechst and Hüls). Up to date more than 300 man years has been invested.



**Joachim Reinhardt  
Helmut Aicher  
Managing Directors**

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helmut.aicher@plastformance.com  
**Skype** reinhardt\_150  
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## **WE ARE OFFERING**

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Innovative high performance Plastic Compounds with properties currently not available in the market. Special focus on high thermal conductivity with simultaneous high electrical insulation based on a new patented technology leading to amongst others higher content-rates of ceramic or metal fillers.

## **WE ARE LOOKING FOR**

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Cooperation Partners to bring our products to customers in different sectors. Licensing Partners for our patented Technology, Product and Project Applications especially related to thermal conductivity (metal replacement). Open for discussion with investors to fund Go-to-Market Strategy

## **PRODUCTS, SERVICES / PROTOTYPES / PROOF-OF-PRINCIPLE**

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PlastFormance offers innovative Plastic Compounds for metal replacement and other applications:

- high thermal conductivity (up to 22 W/mK integral) with electrical insulation or conduction
- magnetic and soft magnetic materials, materials for electromagnetic shielding or radar absorption
- x-ray-radiation shielding (tungsten compounds with densities up to 15 g/ccm)

## **TECHNOLOGY / PATENTS**

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The Plastformance technology is protected by national and international patents. A German patent was granted in 2017 / final in 2018, international patents are pending finalization (Header: Plastic composition, production method, and use of same.) Further patents have been applied for.

## **HISTORY / ASSETS / AWARDS / SPECIALS**

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Technology developed since 2010 by R&D team of sister company A.T.P GmbH with long term plastic experience, first patents applied in 2014 (granted in 2017), further patents applied. Plastformance GmbH founded by development team in 2018 to commercialize development. Go-to-Market just started with initial application projects in implementation phase.



**Dr. Gerhard Dust**  
**Founder and CEO**

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**Website** www.poly-care.de

## **WE ARE OFFERING**

PolyCare has developed a process to produce a super strong concrete from locally available fillers (e.g. desert sand) which hardens in 20 minutes. This concrete is formed into LEGO-like building elements and thus enabling even unskilled people to build quality and affordable houses within a few days.

## **WE ARE LOOKING FOR**

The proof of concept is given. For the scale up phase worldwide we need additional funding and are looking for equity capital. Due to the age structure of the current shareholders, disposals of majority interests are also conceivable.

## **PRODUCTS, SERVICES / PROTOTYPES / PROOF-OF-PRINCIPLE**

Proof of concept (and approval) is given in Germany and SADC (Namibia). In the individual markets (countries) we form JV's with local partners. We supply the technical know-how in return for participation in the JV and at the same time also conclude a licence agreement based on the quantities produced. The ROI for JV's is less than 2 years. PolyCare earns its income both from license income, the margin on the supply of machinery and raw materials, if any, and from the investment itself.

## **TECHNOLOGY / PATENTS**

Both the production of polymer concrete with desert sand and the modular construction method have been patented. There are also other patents and trademark rights. The state approval in South Africa (SADC) has already been granted. After a successful 5-year material testing phase in Germany, the approval is also expected in Europe this year.

## **HISTORY / ASSETS / AWARDS / SPECIALS**

Since its foundation in 2010, the company has spent more than €6 million on R&D. Sales in 2018 exceeded € 1 million. Subsidiaries already exist in South Africa, Namibia, UK. Further start-ups are in preparation. There are more than 20 national and international awards, including winning „Ideas from Europe 2016“. The life cycle analysis for MAS confirms an emission reduction of 60 % compared to conventional building.



**Mikkel Kongsfelt, PhD**  
**CEO**

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## **WE ARE OFFERING**

Supplier of unique nanocoatings, based on scalable polymer-brush technology, for functional tuning of surface parameters. Provides high-performance adhesion between dissimilar materials, self-protective surfaces, antifouling surfaces, surface friction control and on-demand design of surface functions.

## **WE ARE LOOKING FOR**

We are looking for early-stage customers, venture capital and collaborative business partners

## **PRODUCTS, SERVICES / PROTOTYPES / PROOF-OF-PRINCIPLE**

Provide expert consultancy services on functional surface chemistry

Supplier of functional nanocoatings, including brand names:

RadiBond™: Direct bonding agent for hard-to-bond dissimilar materials

RadiPrime™: Adhesive primer agent for polymer-based coatings and adhesives

RadiCoat™: Functional coatings for on-demand tuning of surface properties (protection, antifouling etc.)

## **TECHNOLOGY / PATENTS**

Current IP protection:

1. EP2920230: Joining of polymer and surface-modified solid part (Granted in Germany, Great Britain, France, Italy, Denmark and US. Patent pending in China).
2. New polymer brush production method (Patent application submitted in April 2018)

## **HISTORY / ASSETS / AWARDS / SPECIALS**

History: Spin-out founded on unique decade-long nanotech research conducted at Aarhus University.

Selected achievements:

1. Most Innovative Company Award – EIC Brokerage Event, Hannover Messe, 2018
2. Milestone Entrepreneurship Award – Demo Day, Copenhagen Business School, 2018
3. Top 5 Sustainable Technologies 2018 – Create the Future Design Contest, 2018



*Specialty Chemicals for Innovative Solutions®*

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**Website** www.reaxis.com



**Drs. Mark Smit**  
**Technical Sales and**  
**Business Development**  
**Manager - Europe**

## **WE ARE OFFERING**

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We are offering metal based catalysts

## **WE ARE LOOKING FOR**

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Any company in need of metal based catalysts

## **PRODUCTS, SERVICES / PROTOTYPES / PROOF-OF-PRINCIPLE**

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Reaxis B.V. develops, produces and markets metal based catalysts for Polyurethane, Silicone condensation and esterification reactions utilized in coating, adhesive/sealant, elastomer and foam related applications

## **TECHNOLOGY / PATENTS**

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## **HISTORY / ASSETS / AWARDS / SPECIALS**

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Reaxis Inc is an established US company that has been providing metal-based products for over 40 years. Recently, a European subsidiary was established, focusing on marketing metal-based catalysts to the coating, adhesive/sealant, elastomer and foam related applications.



**Goyal Amit, PhD**  
**Director**

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## **WE ARE OFFERING**

Southern Research is offering a thermo catalytic technology for the production of ethylene using carbon dioxide (CO<sub>2</sub>) and lower alkane (Ethane). The proprietary catalyst developed has high productivity and stability.

## **WE ARE LOOKING FOR**

We are looking for commercial partners to license or for joint development of the technology.

## **PRODUCTS, SERVICES / PROTOTYPES / PROOF-OF-PRINCIPLE**

The technology has been validated at laboratory scale using industrially relevant feedstock including, industrial ethane and simulated flue gas from coal fired power. The catalyst exhibited excellent activity, selectivity, stability and resistance to feedstock impurities following several 100 hours of rigorous testing. The project is now moving to next engineering scale and will be tested on site at a coal fired power plant.

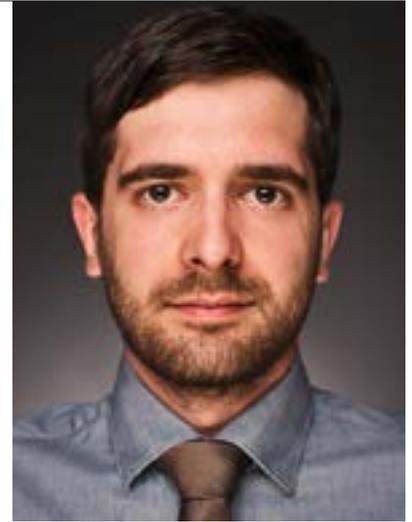
## **TECHNOLOGY / PATENTS**

- 1) US Patent application # 15/366279
- 2) a second patent application is under preparation for a highly stable catalyst, which is resistant to impurities found in flue gases.

## **HISTORY / ASSETS / AWARDS / SPECIALS**

This project has received two significant competitive funding awards from United States Department of Energy – 1) DE-FE0029570 (\$999,860) for lab scale study and catalyst development. 2) DE-FE0031713 (~\$1.9 million) for scale up of catalyst and testing on field site at pilot scale.

Web Link: <https://southernresearch.org/wp-content/uploads/15108-Low-Temperature-Process-Utilizing-Nano-Engineered-Catalyst-for-Olefin-Production-from-Coal-Derived-Flue-Gas.pdf>



**Dr. Martin R. Lohe**  
CEO

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## **WE ARE OFFERING**

Sixonia manufactures and sells a portfolio of large-flake, few-layer E-Graphenes (Electro-exfoliated Graphenes) and customized formulations, tailored to integrate seamlessly into downstream processes. Our E-Graphenes unlock graphene's unique properties to create economically viable end-user value.

## **WE ARE LOOKING FOR**

We welcome partners interested in advancing the development and implementation of next generation enabling materials including inks, coatings, composites, sensors and energy applications; and, we seek investors who share our confidence in commercializing game-changing tailored E-Graphene compounds.

## **PRODUCTS, SERVICES / PROTOTYPES / PROOF-OF-PRINCIPLE**

Our proprietary process innovations enable customers to exploit a wide variety of graphene's superlative properties. We engineer our functionalized graphenes and custom formulations in close collaboration with customers expecting exceptional performance in applications, mainly in the electronics, wearables and automotive sectors. Sixonia tailors its E-Graphene compounds for optimal processability with existing supply chain methodologies and conventional manufacturing processes.

## **TECHNOLOGY / PATENTS**

Unleashing the enabling potential of graphene to seize real-world opportunities requires the efficient integration of  $\mu\text{m}$ -sized, 1-10 layers thick platelets into host matrices and adaptations compatible with semiconductor or other substrate materials. Sixonia's cost-effective material preparation and processing technologies are protected by two patent filings (PCT). Employees and collaborators are bound by strict confidentiality agreements covering all innovations, formulations and compounding-forming processes.

## **HISTORY / ASSETS / AWARDS / SPECIALS**

Since founding the technology-driven enterprise in May 2017, we have already consummated projects with major industry players (Fortune 500 firms) and expect rapid revenue growth, trending from the current base of ~50 k€/a to track expansion of the customers pipeline. As a TU Dresden Spin-Off, we also benefit from a favourable collaboration agreement, which assures generous access to the excellence university's state-of-the-art labs, specialized equipment and renowned materials expertise.



# Sulfotools



**Christina Uth,  
Founder, Managing Director**

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<b>Email</b>	info@sulfotools.com
<b>Skype</b>	-
<b>Website</b>	www.sulfotools.com

## **WE ARE OFFERING**

Sulfotools offers an eco-friendly alternative to the state-of-the-art peptide manufacturing process with cost savings up to 50%. Applying the proprietary Clean Peptide Technology, organic solvents can be completely replaced with water – finally combining sustainability with cost optimization.

## **WE ARE LOOKING FOR**

Currently, we are focusing on the optimization and scale-up of the process. We are looking for investors and strategic partners, who are interested in a side-by-side scale-up and commercialization of our technology..

## **PRODUCTS, SERVICES / PROTOTYPES / PROOF-OF-PRINCIPLE**

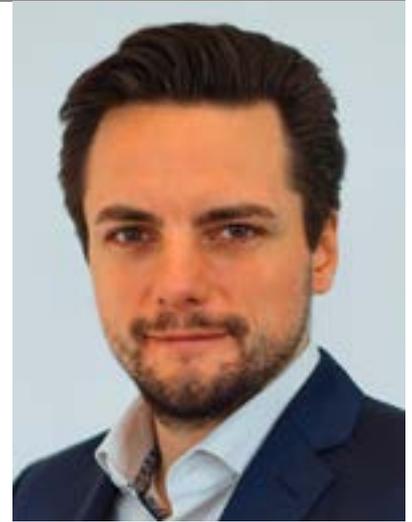
The Clean Peptide Technology developed by Sulfotools is based on novel water-soluble protecting groups. Their intrinsic fluorescent properties allow for the first time for a real-time monitoring of the reaction progress. Additionally, Sulfotools has developed an efficient purification concept and a simple waste water treatment option. The technological and commercial proof-of-principle was validated within pilot projects with industrial partners in the field of cosmetics and pharma.

## **TECHNOLOGY / PATENTS**

As the proof-of-principle of the Clean Peptide Technology was successfully validated at laboratory scale, the process was filed as PCT application and internationalized in 11 countries. The technology can be transferred to other fields of application and expanded into a technology platform. Therefore, two additional patent applications were filed in 2017 to secure and extend the technology.

## **HISTORY / ASSETS / AWARDS / SPECIALS**

The Sulfotools GmbH was founded in March 2016. Currently, Sulfotools is working on the scale-up of the technology and the manufacturing of market relevant pharmaceutical and cosmetic peptides for the validation and generation of prototypical models with industrial partners. By successful positioning within the Science4Life Venture Cup 2015, StartGreen Award 2015, Winner German Brand Award 2017, Land of ideas 2018 etc., substantial interest of potential customers could be generated within the last 4 years.



**Dr. Alexander Müller**

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## **WE ARE OFFERING**

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SUMTEQ is a high-tech start-up focusing on the commercialization of SUMFOAM, an innovative high-performance material on the basis of polymer nanofoams for insulation and other technical applications, first-time produced on an industrial scale using a disruptive and cost-efficient technology.

## **WE ARE LOOKING FOR**

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We are continuously looking for interesting contacts from market and industry in order to extend our strategic network and to gain added impetus for alternative application segments. Additionally, we are always interested in making new contacts on the financial side.

## **PRODUCTS, SERVICES / PROTOTYPES / PROOF-OF-PRINCIPLE**

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SUMFOAM combines unique material properties standing out through an excellent and long-lasting insulation efficiency. In addition, the foam has a very high mechanical stability, is lightweight and fully recyclable. Due to the fact that SUMFOAM is the world's first polymer foam with ultrafine pores, we are constantly looking for additional fields of application, in which SUMFOAM will create added value. Already existing co-operations and application-specific pilot projects ensure a fast market access and launch of SUMFOAM product portfolio.

## **TECHNOLOGY / PATENTS**

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SUMTEQ-technology is characterized by an easy scaleable and cost-efficient process with a sustainable and maximized ecological benefit compared to alternative high-performance insulating materials. During Q1 2019, the first small-series production of SUMFOAM will go into operation. This will ensure sufficient volumes for initial product launches and larger pilot projects. Technology and material are protected by several patents which are all in property of SUMTEQ.

## **HISTORY / ASSETS / AWARDS / SPECIALS**

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SUMTEQ was founded in November 2014 by Roland Oberhoffer, Alexander Müller and Michael Hoffmann as a spin-off of the University of Cologne. We are supported by a complementary investor team and it is our common target to drive the technology together with selected industry partners to successful commercialization. Furthermore, SUMFOAM is considered as an innovative product with positive environmental effects, why SUMTEQ is supported project-specifically by several state subsidy programs at federal and federal state (Land) level.



**Guy Helin**  
CEO

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**Website** www.syngulon.com

## **WE ARE OFFERING**

Syngulon introduces a new genetic technology (US Patent 9,333,227 + NEW patents filed in 2017) focusing on the control of microorganisms for biocatalysis. The patent is based on the use of bacteriocin/immunity in any bacteria, yeast or algae for controlled growth of microorganisms.

## **WE ARE LOOKING FOR**

We are looking for companies using microbial fermentation looking for key issues:  
 Gene containment / Yied increase / Contamination prevention / Genetic drift / Antibiotic-free selection

## **PRODUCTS, SERVICES / PROTOTYPES / PROOF-OF-PRINCIPLE**

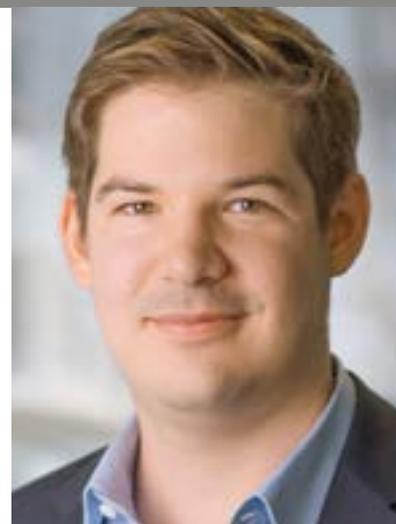
Syngulon has demonstrated at lab scale the efficacy of its selection technology and is working with customers to use its selection technology for the production of recombinant products. Syngulon is also providing services in order to identify contaminants in biocatalysis processes by metagenomic analysis. We have already analysed samples from 4 bioethanol plants in Europe based on sugar beet and starch in order to identify the bacterial contaminants they are facing.

## **TECHNOLOGY / PATENTS**

US Patent 9,333,227: Controlled growth of microorganisms + US Divisional application 20160213005  
 US Patent Application 62552835: Methods + compositions for making bacteriocin & antimicrobial peptides  
 EPO Application 17208600.1: Fermentation process (co-owned with Université libre de Bruxelles)  
 US Patent Application 62681529: Engineering bacteriocins  
 EPO Application No. 18207694.3: Peptides for inducing bacteriocin synthesis and methods to identify and/or select and/or optimize the same (This application is co-owned with UCLouvain)

## **HISTORY / ASSETS / AWARDS / SPECIALS**

Syngulon is a synthetic biology startup founded by Dr Philippe Gabant, CSO and Guy Hélin, CEO. Dr Philippe Gabant is the inventor of 2 other selection technologies, the first one for bacteria (clones) having recombinant plasmids (ULB patents), exclusive license Invitrogen (now Thermo Fisher), the second one for biopharma expression system without antibiotics (ULB patents), licensing via spin-off Delphi Genetics, non-exclusive licenses to Sanofi Pasteur, GSK and Merck/MSD.

**Dr. Benedikt Wanner, CEO**

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## **WE ARE OFFERING**

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Our new automated capsule-based chemical synthesis technologies provide a combined hardware, software and chemical solution and are easier to operate than currently available systems, offering researchers significant safety, efficiency and productivity benefits.

## **WE ARE LOOKING FOR**

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We are seeking lab-based chemists, project and group leaders, who are looking to increase productivity and efficiency in their laboratory and would like to learn more about the advantages of our technology.

## **PRODUCTS, SERVICES / PROTOTYPES / PROOF-OF-PRINCIPLE**

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Synple Chem has developed a new automated capsule-based synthesizer for preparing chemical structures that can be used in chemistry and drug discovery laboratories. As easy to use as a capsule coffee machine, it can be setup within minutes. This enables researchers to prepare new molecules in a faster, safer, cheaper and more efficient manner.

## **TECHNOLOGY / PATENTS**

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Synple Chem's patented technology is currently able to carry out a range of synthetic transformations, including the preparation of N-heterocycles, reductive aminations and PROTAC assembly. We have a strong pipeline, with many other popular reactions classes in development.

## **HISTORY / ASSETS / AWARDS / SPECIALS**

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This recently developed technology has been extensively tested with multiple industrial partners and very positive feedback was received.



**Siegfried Stow**  
**Founder**

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## **WE ARE OFFERING**

A software solution to bring together an unlimited number of instruments, control them remotely, collect data, perform analysis and build intelligent controllers. All over a network from your phone or PC.

## **WE ARE LOOKING FOR**

We are looking for customers, partnerships with instrument manufacturers and collaborations with Industry or Academia. In addition, Interested parties are invited to discuss funding/investment

## **PRODUCTS, SERVICES / PROTOTYPES / PROOF-OF-PRINCIPLE**

Products, Services / Prototypes / Proof-of-principle

- Synthian software: For local and remote management of scientific instruments
- IT solutions: Customised IT solutions designed to make Synthian low cost and easy to use including supplying servers and device hubs
- Support and Installation: For complex customised systems

## **TECHNOLOGY / PATENTS**

Our Software Platform is based on technology similar to the servers powering Netflix or AirBnB, making it powerful, scalable and easy-to-develop. It includes live streaming video feeds, scripting for feedback control and experiment design, and much more. It is a server by default, so you can connect securely to your equipment from your phone, tablet or PC: from anywhere.

## **HISTORY / ASSETS / AWARDS / SPECIALS**

The latest version of Synthian has been in development for approximately a year. Founder Siegfried Stow has a Masters degree in Chemistry from Imperial College London and spent some time at the Max Planck institute working on automated chemistry before starting the company.



**Dr. Frauke Lohr**  
**General Manager & Owner**

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**Phone** +49 220 691 008 00  
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## **WE ARE OFFERING**

We are offering high-tech materials with special functionalities and customized lamination solutions for textile, leather and seat manufacturers with special focus on Aviation. As a solution provider we offer unique materials and combinations thereof, we build prototypes for burn testing and serious production.

## **WE ARE LOOKING FOR**

We are looking for alternative raw materials and add-ons to our current product portfolio with special features such as flame retardency, low weight, low emission, but also additional functionalities like sound absorption & odor adsorption. We are looking for new suppliers als partners, also for new developments.

## **PRODUCTS, SERVICES / PROTOTYPES / PROOF-OF-PRINCIPLE**

Our customers provide (artificial) leather or textile as cover materials to us with special requirements for certain features. We provide customized solutions by figuring out the best set-up to fulfill our customer's requirements based on the following components that we sometimes also combine: 1. Light underlayers, e.g. non-wovens and circulat knit, 2. volume materials like PUR-based graphite foams, double needle bar and thermo-bonded non-wovens, 3. thermoplastic adhesives as roll good for fixation via lamination.

## **TECHNOLOGY / PATENTS**

Technologies: We have lamination and embossing technologies in our factory. In addition we make use of available technologies and capacities in our partner network of suppliers to develop and produce innovative materials that match new customer requirements.

## **HISTORY / ASSETS / AWARDS / SPECIALS**

Tec Move Innovation has started business 5 years ago as solution provider to fulfill specific customer requirements by providing unique high-tech materials and combinations thereof. In the meantime, seat manufacturers and their suppliers from all over the world rely on our customized solutions. You can find our products in various big Airlines around the globe, e.g. Air Astana, All Nippon Airways, British Airways, KLM, Lufthansa, Philippine Airlines, Qatar Airways, Swiss Air, Japan Airlines and others.



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**Mike Hemingway**  
**Sales Director**

**Name** Typhon Treatment Systems Ltd.  
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**Email** mhemingway@typhontreatment.com  
**Skype** -  
**Website** www.typhontreatment.com

## **WE ARE OFFERING**

LED UV Disinfection System for Industrial scale applications. Delivering a sustainable and adaptable solution with inbuilt capacity to meet future expansion in demand alongside substantial whole life cost saving.

## **WE ARE LOOKING FOR**

Typhon is looking to engage directly with the majority of Water Utilities. However we recognise that for industrial applications, while we are still happy to work with End Users, there is great benefit in working with 3rd Party Solutions Providers and Partners in certain areas such the Chemical Industry.

## **PRODUCTS, SERVICES / PROTOTYPES / PROOF-OF-PRINCIPLE**

BIO-300 Series UV Disinfection system: Designed for general disinfection and up to 4 Log cryptosporidium deactivation; Advanced Oxidation Process (AOP) combining LED UV with Sodium Hypochlorite delivers strong oxidation performance – so removal of contaminants such as taste/odour compounds, pesticides and pharmaceuticals – efficiently and without bi-product formation.

## **TECHNOLOGY / PATENTS**

UV-C LED technology is developing at a rapid pace in terms of both UV-C output increases and cost decreases and will continue to do so over the next 10 to 15 years as the market matures. By using LED's, Typhon is able to maximise the UV System efficiencies and also use the unique features of LED's (such as instant ON/OFF control) to optimise performance.

## **HISTORY / ASSETS / AWARDS / SPECIALS**

The Typhon BIO-310 was the first LED UV System to be validated anywhere in the world – validated to the USEPA UVDGM protocol in July 2018. Subsequently Typhon have been awarded a long term framework agreement by United Utilities. But the story of LED UV is only beginning. Typhon are looking for customers and partners who are keen to engage with the technology and reap the rewards as the technology develops.



**Ivana Büttner, M.Sc.**  
**Commercial Management**

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**Website** www.variokan.de

## **WE ARE OFFERING**

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VARIOKAN is the world's first and only sewer system that adapts itself to the flow rate of the waste water in an energy-autonomous way and thus ensures its optimum flow rate at every sewer filling level.

## **WE ARE LOOKING FOR**

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We are looking for a cooperation partner in the field of EPDM production. We are also interested in further pilot project opportunities. Furthermore, we are looking for contacts to investors from the construction industry.

## **PRODUCTS, SERVICES / PROTOTYPES / PROOF-OF-PRINCIPLE**

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Various models have been developed for the purpose of product presentation. An important milestone will be reached with the completion of an above-ground test facility (2nd stage of PoC) in the third quarter of 2019. Various wastewater operators have expressed a clear need for the VARIOKAN wastewater system. Written letters of intent already exist for joint pilot projects.

## **TECHNOLOGY / PATENTS**

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The VARIOKAN system is registered as a utility model at the German Patent and Trade Mark Office. The European patent has been applied for and is currently in the granting procedure.

## **HISTORY / ASSETS / AWARDS / SPECIALS**

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VARIOKAN was launched in 2016 by M.Eng. Pierre Büttner (technical management) and M.Sc. Ivana Büttner (commercial management) as GbR in Gießen. The conversion into a GmbH is planned for 2019. VARIOKAN has received several awards - most recently as the winner of the Science4Life Venture Cup 2018.



**Paul Poelmans**

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**Skype** -  
**Website** www.verhaert.com

## **WE ARE OFFERING**

We are offering 'concrete' services in the full innovation lifecycle with an extensive focus on technology driven transfer from and towards the chemical industry.

## **WE ARE LOOKING FOR**

We are looking for companies that want to innovate, using our broad experiences and competences to bring you to the borders of your known world, there where real innovation happens!

## **PRODUCTS, SERVICES / PROTOTYPES / PROOF-OF-PRINCIPLE**

'Concrete' services are: translate technologies in products linked to concrete 'user' needs. Develop a technology further into a product. Link companies (start-ups) with other companies in an Open Innovation approach. Offer our ESA Space Technology and our FUTTA Fusion Technology Transfer European Network to spread technology over Europe easily, to enrich technology with other technologies.

## **TECHNOLOGY / PATENTS**

Proven and specialized (technological) knowledge in different area's: optics, embedded and sensor technology, AI and ML, product design, chemistry 4.0, Circular Economy and sustainability, industrialization, software, mechanical design, innovative operational excellence and process design, system design and system integration. All IP developed remains the ownership of our customers, and we initiated more than 200 patents for and with our customers until now!

## **HISTORY / ASSETS / AWARDS / SPECIALS**

Verhaert is active in technology driven innovation since 1969. Focus is on Disruptive Innovation, Technology Transfer and (complex) Product Development. We invented and have built new products and technologies for the Space Industry (ESA), FMCG Industry, the Make Industry and the Process, Advanced Materials and Chemical Industry and the Medical Industry. We have a lot of focus on the newest technologies: Smart Devices, Packaging and Processing, Circular Economy, EO, New Space



**Jonas Hartman**  
Solution Sales Lead

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<b>Website</b>	www.vttresearch.com

## **WE ARE OFFERING**

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We offer to create impact for our partners through excellence in scientific R&D services and licensing. More specifically at the 3rdECP, we want to make people aware of our capabilities to pilot and/or demonstrate CO<sub>2</sub> conversion to chemicals at e.g. Your site with the VTT Mobile unit.

## **WE ARE LOOKING FOR**

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We are looking for partners who can commercialize our own or partner-mutual ideas. Anyone who would like to demonstrate CO<sub>2</sub> conversion to chemicals for carbon emission reduction and clean ingredients is invited to discuss with us to see what case we could build together.

## **PRODUCTS, SERVICES / PROTOTYPES / PROOF-OF-PRINCIPLE**

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Products, Services / Prototypes / Proof-of-principle: We have a mobile unit for gas cleaning and CO<sub>2</sub> conversion and well-equipped labs for further oil fractionation for further testing, along with techno-economic and LCA analyses coupled to a given case. One recent proof-of-principle was carried out through piloting at an industrial site.

## **TECHNOLOGY / PATENTS**

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Patents exist within gas cleaning and CO<sub>2</sub> reactors.

## **HISTORY / ASSETS / AWARDS / SPECIALS**

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VTT has an over 70 year old track record in R&D services and 30 years in C1 chemistry. We have a mobile unit for gas cleaning, CO<sub>2</sub> conversion and well-equipped laboratories for further oil fractionation for application screening and testing.

<https://www.vttresearch.com/media/news/vtt-and-st1-to-pilot-future-bioeconomy-climate-friendly-hydrocarbons-from-industrial-carbon-dioxide-emissions>



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**Karl-Heinz Hörnlein**  
CEO

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**Skype** -  
**Website** -

## **WE ARE OFFERING**

We offer a patented technology to convert straw to pulp, and an organic long-term bio fertilizer, without any waste water in the industrial production process. We are also offering to erect a straw/pulp fertilizer production plant in Germany.

## **WE ARE LOOKING FOR**

We are looking for investors, to build up the first plant in Germany. The project capital is approx. 250 M €. The project requires 40 M € in equity and 210 M € in loans. The German Government offers letters of security to guarantee up to 80 percent of the loans.

## **PRODUCTS, SERVICES / PROTOTYPES / PROOF-OF-PRINCIPLE**

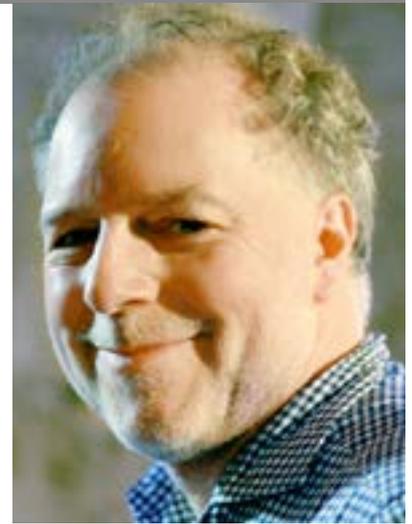
One product is straw pulp, especially suited for use in the cardboard paper industry. Recycled waste paper loses strength when recycled. The straw pulp is added to attain the necessary strength in the paper products. Second product is an organic, long-term, bio fertilizer, with organic nitrogen. The fertilizer does not dissipate or seep into the ground water. There are pre-plans for the plant, the production land is reserved, and there is a core team in place to realise the project.

## **TECHNOLOGY / PATENTS**

The process makes two products from straw - pulp and fertilizer – in one production line. The production is a closed process and compared to other pulp industries, uses less energy and produces no waste water. The technology is state of the art. It is the second generation of straw pulp production plus a fertilizer instead of the hazardous black liquor produced by the normal pulp production. The above technology is patented worldwide.

## **HISTORY / ASSETS / AWARDS / SPECIALS**

In the last 8 years, we have invested about 7 M € only from our private funds. Up to date no liabilities have been occurred. We have an EU-Certificate stating the Seal of Excellence.



**Dr. Andreas Hahn**  
General Manager

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**Website** www.zeta-pa.de

## **WE ARE OFFERING**

---

Characterization services for nanomaterials, porous media and functional materials including development of application-relevant testing scenarios and evaluation of active sites

## **WE ARE LOOKING FOR**

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Opportunities to speed up product and/or application development with our extra expertise and in-house characterization capabilities for nanomaterials, functional materials and heterogeneous catalysts

## **PRODUCTS, SERVICES / PROTOTYPES / PROOF-OF-PRINCIPLE**

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We are a service provider specialised on particulate nanomaterials porous materials and materials with active sites based on a unique knowledge in this field. We perform characterization tasks for physico-chemical parameters plus set-up of application-specific testing procedures and help customers very effectively in questions related to EU-nanomaterial definition for example via VSSA-method.

## **TECHNOLOGY / PATENTS**

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All our measurements are based on commercially available state-of-the-art scientific instruments – although we sometimes use them in an offbeat mode.

## **HISTORY / ASSETS / AWARDS / SPECIALS**

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Started in 2007 - and still in the process of learning about possibilities of functional materials...

Think outside the box.  
Create tomorrow's innovations!



EUROPEAN CHEMISTRY PARTNERING

# Unique speed dating for the chemical industry and all related business areas

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## 4<sup>th</sup> ECP – 27 February 2020

Frankfurt am Main, Germany

[www.European-Chemistry-Partnering.com](http://www.European-Chemistry-Partnering.com)

2<sup>nd</sup> ECP Summer Summit  
2019

26 September 2019  
Düsseldorf, Germany  
Henkel Headquarter



# Exhibitor profiles



**AIRPORT CLUB**  
FRANKFURT

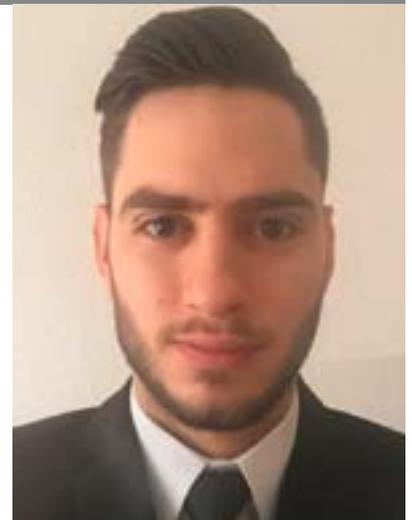


**Roland Ross**  
**Managing Director**

**Name** Airport Club Frankfurt GmbH  
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**Skype** -  
**Website** www.airportclub.de

## **COMPANY DESCRIPTION**

Airport Club Frankfurt is one of the most important business clubs in Europe. Personalities from home and abroad, from the worlds of business, academia, culture and politics, all meet at the Airport Club and benefit from numerous privileges and services, specially tailored to their requirements.



**Nikola Petrov**  
**Privatkundenberater**

**Name** AOK – Die Gesundheitskasse in Hessen  
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## **COMPANY DESCRIPTION**

We are a strong insurer and we shape the ways to a healthiness. We daily assume the responsibility for our insured people and at the same time we give support around the healthiness. With our competence, experience and significance we take care about the quality assured, effective and economical health providing. We comply with the needs of our customers and we find individual solutions.



**Dr. Anna Gawin**  
**Senior Research Manager**

**Name** Apeiron Synthesis S.A  
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**Skype** annakgawin@gmail.com  
**Website** www.apeiron-synthesis.com

## **COMPANY DESCRIPTION**

Apeiron is a chemical company commercializing olefin metathesis, a Nobel prize-winning technology, through development of proprietary catalysts used to reduce costs and energy inputs while streamlining manufacturing processes in the pharma and chemical industries. Apeiron strives to offer the best metathesis catalysts suitable for a given reaction. Moreover we support our customers during the implementation stage to make desired process feasible. Our products have already been used by R&D centers in over 50 companies from pharma and chemical sectors and some of the developed processes are in the implementation stages.

# Save the Date!

## 4<sup>th</sup> European Chemistry Partnering



**27 February 2020**  
**Frankfurt, Germany**

**2020**

[www.ecp2020.com](http://www.ecp2020.com)



# ARS

**Name** ARS Computer und Consulting GmbH  
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**Dr. Bernd Künnen**  
**Team Leader Cognitive/AI**

## WE ARE OFFERING

Modern laboratories and production plants produce lots and all kind of data – quite often in various formats and locked up in different silos. With over 25 years of experience in software engineering and system integration, ARS helps you to discover and lift this data and to make it accessible easily. Once unlocked, the hidden values of your data can be retrieved using Big Data, Data Science and Machine Learning. The results may lead to new insights or even process optimization.

## NETWORK, INNOVATION, COOPERATION



**Name** Chemie Cluster Bayern  
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**Dr. Patrick Prühs**  
**Managing Director**

## COMPANY DESCRIPTION

CCB is a market-oriented network of start-ups, SMEs, enterprises, global players and research institutes and universities. We promote and foster innovation and development in the chemical sector and beyond. With its three business divisions, Market Development, Innovation Project Development and Public Funding, CCB supports its members and partners in the realization of interdisciplinary research projects and identification and development of novel (inter-) national markets. Our core competences are development of networks, initiation of collaborations between actors from different sectors and locations.



ASCA GmbH  
Angewandte Synthesechemie  
Adlershof



**Dr. Christine Wedler**  
Managing Director

**Name** ASCA GmbH Angewandte Synthesechemie  
Adlershof  
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**Website** www.asca-berlin.de

## COMPANY DESCRIPTION

ASCA is an independent laboratory for chemical synthesis. Our products are standards and reference materials for analytical purposes e.g. pesticides, API's, alternaria toxins and their metabolites both native and labelled. We also offer custom synthesis for research projects or approval procedures.

## BIOECONOMY, NETWORK, SUSTAINABILITY



BioEconomy Cluster

**Name** BCM BioEconomy Cluster Management GmbH  
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**Phone** +49 345 131 427 30  
**Email** Matthias.zscheile@bioeconomy.de  
**Skype** -  
**Website** en.bioeconomy.de



**Prof. Dr. Matthias Zscheile**  
CEO

## COMPANY DESCRIPTION

The BioEconomy Cluster links relevant economic sectors such as the wood and forestry industry, timber construction, the paper, chemical, plastics and processing industries, the energy sector as well as mechanical and plant engineering. Our cluster activities focus on renewable, non-food relevant raw materials for innovative timber construction, bio-based composites, lightweight automotive construction, packaging, bioplastics, fine and specialty chemicals. The network offers its members a wide range of opportunities for cooperation, project management as well as the use of infrastructure for upscaling or downsizing.



# B·R·A·I·N



**Dr. Martin Langer**  
SVP Business Development

**Name** BRAIN AG  
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**Website** www.brain-biotech.de

## COMPANY DESCRIPTION

BRAIN is a bioeconomy pioneer and a preferred B2B partner for sustainable industrial biotechnology solutions with a focus on bioactive natural compounds, customized enzymes and high-performance microorganisms. Based on its proprietary BioArchive and a high-tech portfolio, BRAIN Group develops and produces previously unobtainable and optimized innovations for Nutrition & Health, Skin Care and Industrial BioSolutions. BRAIN Group provides competitive market advantage and differentiation through direct Product Sales and the Joint Developments of tailor-made solutions with industrial partners.

## API, GMP MANUFACTURING, DOCUMENTATION



**Dr. Ralf Zuhse**  
CEO

**Name** Chiracon GmbH  
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**Skype** -  
**Website** www.chiracon.de

## COMPANY DESCRIPTION

Chiracon has 20 years of experience in the field of drug synthesis and documentation. As a German company located south of Berlin, we can reliably offer all services possible in the area of synthetic drug development for new or generic products. We are specialized in organic synthesis, scale up and production according to GMP guidelines. Furthermore we provide all the documentation needed for APIs for clinical trials, for compounding and also in order to introduce new APIs to market, such as ASMF /DMF /IMPD.



**Hans Buchmeiser**  
**Sr. Sales Manager Fermentation & tech.Enzymes**

**Name** Corden BioChem GmbH  
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**Skype** -  
**Website** www.cordenbiochem.com

## COMPANY DESCRIPTION

Leader in Industrial Large-Scale Microbial Fermentation, Biotechnology, Enzymes & Biocatalysis, decades of experience in microbial fermentation, technical enzymes and the application of biocatalysis. Broad range of downstream unit operations from broth separation via separators (nozzle, disc), cross flow filtration, cell disruption via homogenisation, concentration via ultrafiltration and reverse osmosis to immobilization of enzymes. Certificates: Kosher/Halal/ HACCP/ FSSC 22000 (soon)

## GLOBAL LAW ATTORNEYS



大成 DENTONS



**Peter Homberg**  
**Partner**

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## COMPANY DESCRIPTION

Dentons is the world's largest law firm, delivering quality and value to clients around the globe. Dentons is a leader on the Acritas Global Elite Brand Index, a BTI Client Service 30 Award winner and recognized by prominent business and legal publications for its innovations in client service, including founding Next-law Labs and the Nextlaw Global Referral Network. Dentons' polycentric approach and world-class talent challenge the status quo to advance client interests in the communities in which we live and work.



**Name** Duessegi Editore s.r.l.  
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**Country** Italy  
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**Email** alessandro.gobbi@duessegi.com  
**Skype** -  
**Website** www.icpmag.it



**Alessandro Gobbi**  
**(Chief Editor)**  
**Marco Lorusso (Key Account)**

## COMPANY DESCRIPTION

ICP - Rivista dell'Industria Chimica is the reference magazine for the decision makers of in the chemical and pharmaceutical industry and process engineering in Italy. Readers include plant managers, procurement and maintenance managers and plant engineers engaged in the process industry (Chemical, Pharmaceutical, Oil & Gas, Power...). ICP has reached its leadership thanks to the broad range of topics it deals with and the exhaustive information it provides to its readers in its technical and market articles. The magazine is the Official Body of AIDIC (Italian Association of Chemical Engineering).

## PLANETARY ROLLER EXTRUDER



**Name** ENTEX Rust & Mitschke GmbH  
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**Skype** -  
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**Thomas Malzahn, Dipl.-Ing.**  
**Marketing Manager**

## COMPANY DESCRIPTION

The planetary roller extruder covers the whole bandwidth of the compounding technology. It is used in the Plastic, Colour, Rubber, Chemical, Food, WPC Industry. Service worldwide.



**Name** Enzymicals AG  
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**Email** info@enzymicals.com  
**Skype** Enzymicals  
**Website** www.enzymicals.com



**Dr. Ulf Menyes**  
**CEO**

## COMPANY DESCRIPTION

Enzymicals delivers concept-to-completion comprehensive SOLUTIONS in creating, developing and scale up of robust chemo-biocatalytic processes and downstream procedures for the production of fine and specialty chemicals. The company manufactures a range of CHEMICALS like chiral building blocks, intermediates and specialty chemicals from analytical to kilogram scale and offers synthesis on customer request. Enzymicals offers a broad selection of recombinant ENZYMES suitable for R&D, production and diagnostics as well as tailor-made protein expression and optimization service.

## INVESTINFLANDERS



**FLANDERS**  
**INVESTMENT &**  
**TRADE**

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**Katharina Desmet**  
**Economic and**  
**commercial attaché**

## COMPANY DESCRIPTION

Interested in doing business in Flanders? Let us help you! • We can introduce you to other companies, banks and regulators • We organize site visits to real estate locations • We assist with all legal aspects of setting up a business • We're the official government agency • Our services are completely free • We are a team of international experts



**Dr. Sven Ziegenbalg**  
Project Manager

**Name** IBZ-Salzchemie GmbH & Co. KG  
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**Skype** -  
**Website** www.ibz-freiberg.de

### COMPANY DESCRIPTION

IBZ is an integrated service and consulting company with experiences of more than 15 years in chemical engineering, mineral processing and in the production of manifold nanoparticles (e.g.  $\text{Ca}(\text{OH})_2$ ,  $\text{CaCO}_3$ ,  $\text{Mg}(\text{OH})_2$ ). We offer technology development concerning mainly crystallization/evaporation and separation processes. Our services cover complex process development and laboratory testing in own facilities up to pilot scale. We are looking for customers with the demand for new/enhanced technologies for inorganic compounds or raw material processing and end users of the in-house produced nanoparticles.

### EUROPEAN PATENT ATTORNEYS



**Dr. Oliver Brosch**

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### COMPANY DESCRIPTION

We are a law firm specialising in patent and trademark law. We protect and fight for your intellectual property rights. We advise and support you throughout the entire process. 6 Partners and over 25 employees are working on your behalf every day. Repeatedly, our law firm has been named in the current JUVE Handbook of "Commercial Law Firms" as patent law firm of particular prestige in the fields of chemistry, pharmaceutical and mechanical engineering patents



**Name** Science4Life e.V.  
**Address** Geschäftsstelle Science4Life e.V.  
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**Skype** -  
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**Dr. Peter Wonerow**  
Project Lead

## COMPANY DESCRIPTION

Science4Life is a German initiative to support founders of start-up companies in the field of Life Sciences, Chemistry and Energy. Science4Life is focused on the annual business plan competition specialized in Life Sciences, Chemistry, and Energy – the Science4Life Venture Cup. More than 300 expert advisers from over 200 institutions are supporting the initiative by acting as coaches. The spectrum of partners covers all areas that are essential for new innovative entrepreneurs.

## ADDPRIME® - 'SMART' ADDITIVES



**Name** Smallmatek – Small Materials and Technologies, Lda  
**Address** Rua dos Canhas  
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**Country** Portugal  
**Phone** +351 234 024 781  
**Email** frederico.maia@smallmatek.pt  
**Skype** fred.maia83  
**Website** www.smallmatek.pt



**Frederico Maia, PhD**  
R&D Director

## COMPANY DESCRIPTION

Smallmatek is an R&D company dedicated to the development and production of nanostructured materials with the ability to immobilize, transport and release active compounds in a controlled way. These multifunctional additives are suitable for introduction of new features in several matrices, including protective coatings, food packaging, concrete, water purification among others. Our aim is to provide know-how to industrial players in order to create a new generation of high-value products.



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**Website** www.taros.de



**Yuri R. Mesmoudi**  
**Executive Vice President**

## COMPANY DESCRIPTION

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Our services cover the full range of organic chemistry research, synthesis (e.g. reference standards, polymeric dispersions, dyes, additives, functionalized monomers), process development and production from lab scale to 1000 kg/a. This includes route scouting and retrosynthetic analysis to enable our customers to reduce costs, eliminate process steps and increase their independency from third party key raw materials vendors. We are working for diverse industries like coatings, inks, lubricants, adhesives, performance plastics, consumer goods, etc. with a demand for customized fine and specialty chemicals.

# ECP-Sponsors

# Double Diamond Sponsor

## FOX CORPORATE FINANCE GMBH

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FCF is a specialized Investment Bank and Financing Specialist advising public and private midmarket companies in the DACH region. FCF arranges, structures and places equity and debt capital and supports its clients' growth, IPO/Pre-IPO, acquisition and standard balance sheet (re-)financing strategies, working with leading German and international investors and lenders at the best available terms.

## TECHNOLOGIELAND HESSEN

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**TECHNOLOGIELAND HESSEN**  
Vernetzt. Zukunft. Gestalten.

Hessen Trade & Invest is the business development agency of the federal state of Hessen. Under the brand Technologieland Hessen we inform Hessian companies on emerging technologies, support SME in strengthening their competitiveness and connect them to industry and academia. Focus topics are, amongst others, material and nanotechnologies, additive manufacturing, IoT, life sciences and resource efficiency.

## ISC<sub>3</sub> – INTERNATIONAL SUSTAINABLE CHEMISTRY COLLABORATIVE CENTRE

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The International Sustainable Chemistry Collaborative Centre is a new independent, international centre promoting sustainable chemistry solutions worldwide. ISC3 provides a platform for policy, civil society, industry and academia to develop new innovative solutions for the most pressing problems of our time. The centre acts as a global innovation accelerator, think tank and and knowledge broker.

# Diamond Sponsors

## DENTONS EUROPE LLP

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大成 DENTONS

Dentons is the world's largest law firm, delivering quality and value to clients around the globe. Dentons is a leader on the Acritas Global Elite Brand Index, a BTI Client Service 30 Award winner and recognized by prominent business and legal publications for its innovations in client service, including founding Nextlaw Labs and the Nextlaw Global Referral Network. Dentons' polycentric approach and world-class talent challenge the status quo to advance client interests in the communities in which we live and work.

# Partnering Sponsor

## C-LECTA GMBH

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c-LEcta is a world-leading biotechnology company with a focus on enzyme engineering and application in regulated markets like the food and pharma industries. The company is based in Leipzig, Germany, and has established itself as a leading player in the realization of high-value biotech products, either in the form of in-house developments or in close cooperation with industry.

# Platinum Sponsors

## DECHEMA GESELLSCHAFT FÜR CHEMISCHE TECHNIK UND BIOTECHNOLOGIE E.V.

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DECHEMA is the expert network for chemical engineering and biotechnology in Germany. As a non-profit professional society we represent these fields in science, industry, politics and the general public. DECHEMA promotes scientific and technical exchange

among experts from different disciplines, organizations and generations. We consolidate the know-how of over 5,800 individual and sustaining members.

## KUNSTSTOFFINSTITUT FÜR DIE MITTELSTÄNDISCHE WIRTSCHAFT NRW GMBH

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The Kunststoff-Institut Lüdenscheid, an institute associated with the university of applied sciences Fachhochschule Südwestfalen, concentrates on improving the quality and cost-efficiency of injection-moulded parts made of thermoplastic and thermoset materials. As a private service provider, the

Institute was established in 1988 as an "extended workbench" and is thus one of the most experienced players in this sector.

## MERCK KGAA

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Merck is a leading science and technology company in healthcare, life science and performance materials. We are passionate about further developing technologies that improve and enhance life – from

biopharmaceutical therapies to treat cancer or multiple sclerosis, cutting-edge systems for scientific research and production, to OLED materials for displays and lighting.

## SANOFI AVENTIS DEUTSCHLAND GMBH

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Sanofi is dedicated to supporting people through their health challenges. We are a global biopharmaceutical company focused on human health. We prevent illness with vaccines, provide innovative

treatments to fight pain and ease suffering. We stand by the few who suffer from rare diseases and the millions with long-term chronic conditions. With more than 100,000 people in 100 countries, Sanofi is transforming scientific innovation into healthcare solutions around the globe.

# Gold Sponsors

## CHEMIEPARK BITTERFELD-WOLFEN GMBH

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Plug & play offices, laboratories, pilot plants and greenfields; full market access to services & integrated feedstock (eg. Cl, HCl, SiCl<sub>4</sub>): ideal conditions for scale up while minimising cost for Startups, SMEs and corporations. Covering 1,200 hectares, the Chemical Park Bitterfeld-Wolfen is one of the largest areas for chemical and pharmaceutical companies in Europe.

## CLARIANT LTD

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# CLARIANT



Clariant is a globally leading specialty chemicals company, based in Muttenz near Basel/Switzerland. On 31 December 2017 the company employed a total workforce of 18,135. In the financial year 2017, Clariant recorded sales of CHF 6.377 billion for its continuing businesses. The company reports in four Business Areas: Care Chemicals, Catalysis, Natural Resources, and Plastics & Coatings. Clariant's corporate strategy is based on five pillars: focus on innovation and R&D, add value with sustainability, reposition portfolio, intensify growth, and increase profitability.

## GESELLSCHAFT DEUTSCHER CHEMIKER

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GESELLSCHAFT DEUTSCHER CHEMIKER

The Gesellschaft Deutscher Chemiker (GDCh, German Chemical Society) has approximately 31,000 members and is one of the largest chemical scientific societies worldwide. It promotes scientific research and teaching as well as the exchange and dissemination of new scientific knowledge. The German Chemical Society supports the creation of networks, the trans-disciplinary and international collaboration and continuous education and training in schools, universities and professional environment. The German Chemical Society has 27 divisions and 60 local sections.

## HIGH-TECH GRÜNDERFONDS MANAGEMENT GMBH

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High-Tech Gründerfonds (HTGF) is a powerful engine that drives the success of tech-driven startups. Armed with expertise, entrepreneurial spirit and passion, the experienced team of investment managers and startup experts guide top companies on their journey until the exit phase. HTGF focuses on high-potential startups active in the sectors of software, media, internet, hardware, automation and robotics, life sciences (medical technology, diagnostics, biotechnology) and chemistry.

# Silver Sponsors

## BOETERS & LIECK

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**BOETERS  
& LIECK**

PATENTANWÄLTE  
EUROPEAN PATENT AND  
TRADEMARK ATTORNEYS

BOETERS & LIECK is an intellectual property law firm with roots dating back to 1968. The firm is located in Munich in proximity to the seat of the European Patent Office and the German Patent and Trademark Office. We provide all services related to intellectual property including patents, utility models, design models, trademarks and plant varieties in Europe. Our attorneys work in the fields of pharmaceuticals, chemistry, biochemistry, biotechnology and biology.

## HERAEUS HOLDING GMBH

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**Heraeus**

A globally leading technology group, Heraeus is headquartered in Hanau, Germany. Founded in 1851, it is a family-owned portfolio company. Today, Heraeus combines businesses in the environmental, energy, electronics, health, mobility and industrial applications sectors. With approximately 13.000 employees, the FORTUNE Global 500-listed company holds a leading position in its global markets. Heraeus is one of the top 10 family-owned companies in Germany.

## IBM RESEARCH

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**IBM Research**

IBM Research defines the information technology with more than 3,000 researchers in 12 labs. Our Scientists have produced 6 Nobel Laureates, 10 U.S. National Medals of Technology, 5 U.S. National Medals of Science, 6 Turing Awards, 19 inductees in the National Academy of Sciences, 20 inductees into the U.S. National Inventors Hall of Fame. For more information, please visit [www.research.ibm.com/](http://www.research.ibm.com/)

## ISLE UTILITIES GMBH

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Isle is a global independent technology and innovation consultancy with a strong track record in identifying and accelerating the market uptake of innovative technology solutions. Isle acts as a facilitator between technology developers, industry end-users and investors. Isle has technical expertise in municipal and industrial water and wastewater treatment and reuse.

## VERHAERT NEW PRODUCTS & SERVICES N.V.

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Successful product and process innovation requires an integrated approach. We manage towards the 'sweet spot of innovation'. Verhaert delivers managed innovation services integrating disciplines through the entire process, from strategy over product/machine development towards the launch. Since 1969 we serve international market leaders as ABInBev, Henkel, DOW, Novartis ... and several startups

# Topic Sponsors

## BIOECONOMY CLUSTER E.V.

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BioEconomy Cluster

Since 2012 the BioEconomy Cluster is a Leading Edge Cluster of the German Federal Ministry of Education and Research. Our aim: Shaping the future by BioEconomy. Partners from industry and research are working on the foundations of the material and energetic use of non-food biomass. Relevant sectors, like the timber and forestry industry, the chemical industry, the plastics industry and plant engineering, are all working together as part of a regional centre of competency in bioeconomics. An integrated approach to up-scaling enables processes to be developed quickly from laboratory to industrial scale.

## VON FREUDE

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VON FREUDE is a pioneer of the Craft Beer movement in Germany since 2013. The company is based in Hamburg. We aim to make new and modern beers available to the interested public, not just towards experienced Craft Beer consumers. Therefore we design accessible beers at fair prices available in shops as well as in the out of home market.

## INNOENERGY GMBH

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InnoEnergy is the innovation engine for sustainable energy across Europe. We need new ideas, products and services that make a real difference, new businesses and new people to deliver them to market. InnoEnergy supports and invests in innovation at every stage of the value chain. With our network of partners we build connections across Europe, bringing together inventors and industry, graduates and employers, researchers and entrepreneurs, businesses and markets.



# CHEMISTRY & NETWORKING

The Scientist's Shirt Shop



[shop.spreadshirt.de/chemistry-and-networking](http://shop.spreadshirt.de/chemistry-and-networking)

# ECP-Friends

**"I felt at home"**

...

**that is what Daniela Ribezzo said about the 1<sup>st</sup> European  
Chemistry Partnering.**

**Organizer Holger Bengs and his team did their best to enable  
people to find each other and to do business.**

**This year there are much more companies and much more  
participants at the 3<sup>rd</sup> European Chemistry Partnering.**

**So you can feel at home among a whole group of friends – and  
what's more Holger has also asked some friends to help him  
to bring people together.**

**Lets´ go !**

**Feel free to talk to Karin Cabrera, Claus Nielutz, Matthias  
Poschmann and Julia Schüler about any of the different  
topics shown on the display or here in their profiles.**

**You will easily recognize the four of them – they will be  
wearing yellow ties and scarves.**

## DR. KARIN CABRERA

Dr. Karin Cabrera has been active in the chemical and pharmaceutical industry for nearly 30 years. Here she developed profound knowledge in the R&D of innovative products working as a product manager and head of R&D. Dr. Cabrera is an international expert in chromatography who holds 30 patents and has received several awards for her developments, including the PittCon Gold Medal for the best new product of 2001.

Dr. Cabrera studied chemistry at the university of Hamburg and spent four years at the Weizmann Institute of Science (Rehovot, Israel) as a visiting scientist.

Topics:

- Analytics and chromatography
- Patents and licenses
- Equipment and accessory manufacturers



## CLAUS H. NIELUTZ



Claus Nielutz has worked in the Chemical and Life Science Industry in China and Europe for more than 20 years. He studied East-Asian-Economies in Germany and China, serving Multinational distribution and production companies as Senior Executive. He is currently the Managing Director, Europe for a Chinese Bio-Pharmaceutical Producer.

In addition to his extensive expertise in due diligence, business development and sales, supporting a Private Equity in Asia, Mr. Nielutz is a current Jury Member of Science4Life, in Frankfurt am Main, a Member of the Biotechnologie Cluster, BioRiver, in NRW (North Rhine-Westphalia), and the German-Chinese-Business Association, DCW, in Cologne.

Topics:

- Pharmaceutical Development
- Sales and growth
- International: China

## MATTHIAS POSCHMANN



Matthias Poschmann has worked in the plastics industry in Germany and Europe for more than 30 years. He started his entrepreneurial career with the takeover of a small plastics company in 1983. During the following years he founded more than 30 companies in the plastics and electronics / electrical businesses in Germany and different European countries. Thus he has gained extensive experience in all important issues related to Start-ups and SMEs.

Topics:

- Plastics & composites
- Foundation & Company Building
- SME networks

## DR. JULIA SCHÜLER

Julia Schüler has focussed on analyzing and assessing developments in the biotechnology industry for more than 20 years. She studied biology and finished her master thesis on protein engineering at the former Hoechst AG, followed by post-graduate studies in business administration. Her PhD, which she gained at the University of Erlangen-Nuremberg, was entitled "Strategic technology management in the biotechnology industry". In addition to working as a freelance analyst and consultant for several clients Dr. Schüler spent nearly 10 years with EY / Ernst & Young. She taught biotechnology master students in business administration at the University of Applied Sciences Mannheim. In addition, her current interests include communications / public relations, competitive intelligence, health technology assessment and pharmaceutical market access.

Topics:

- Biotechnology
- Communication & Public Relations
- Biotech and pharmaceutical networks



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