

enterprise europe network



Exhibition | Innovations for Europe based in NRW

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EUROPEAN NETWORKING EVENT

14-15 FEBRUARY 2019

VAN DER VALK AIRPORTHOTEL, DÜSSELDORF, GERMANY



Business Support on Your Doorstep



www.nrweuropa.de

COREVAS GmbH & Co. KG EmergencyEye®



Remote access to smartphone functions in emergency situations

Project start: 01/2018
Project end: 12/2018
Total EU funding: € 0.5 million
Funding for NRW: € 0.3 million



Prof. Günter Huhle

Corevas GmbH & Co. KG.

www.emergencyeye.de

App-free EmergencyEye® guarantees remote access to smartphone-based information and functions in health crises and emergency situations. Funded by EIT Health as part of the RAMSES project under Horizon 2020, it was launched in Germany in October 2018 and will be rolled out as a potentially life-saving technology in Germany and the EU in 2019. It enables people in health crises and emergency situations to share more comprehensive information, including geo-location and video live streams with professional service organisations, and receive timely and improved support and guidance by allowing professional services to remotely access and control the features of the bystander's and affected person's smartphone. Corevas GmbH & Co. KG was founded by Prof. Günter Huhle and Carola Petri in 2015.

Project partners

- KIT Karlsruhe Institute of Technology (Germany)
- RWTH Aachen University (Germany)
- University of Cologne and the University Hospital of Cologne (Germany)
- Catholic University of Leuven (Belgium)
- imec Interuniversity Microelectronics Center (Belgium)
- BIO Clustermanagement NRW GmbH (Germany)
- ISEmbH (Germany)
- Liki Mobile Solutions (Poland)
- Nofer Institute of Occupational Medicine (Poland)



Günter Huhle, Viktor Huhle,
Carola Petri



Covestro Deutschland AG Carbon4PUR



Carbon4PUR

Turning waste gases into higher value intermediates

Project start: 10/2017
Project end: 09/2020
Total EU funding: € 7.8 million
Funding for NRW: € 3.8 million



Dr. Liv Adler

Covestro Deutschland AG

www.carbon4pur.eu/

Carbon4PUR is a consortium of 14 industrial and academic partners from seven European countries, coordinated by Covestro.

The consortium aims at researching and developing a new technology that can transform steel mill gas

streams into so-called polyols – chemical key components of polyurethane-based foams and coatings that are otherwise obtained from crude oil. Both the consortium and the work are organized along the full value chain starting with the provision and conditioning of industrial emissions from a steel to a chemical company in line with the concept of industrial symbiosis.

Academic partners investigate the sustainability and various technical and economical questions. The cross-sector project runs until 2020 and receives funding from the European Union under grant agreement No 768919.



Institut für Energie- und Umwelttechnik e.V.

FutureNanoNeeds

Shaping the next generation
of nanomaterials



Project start: 01/2014
Project end: 12/2017
Total EU funding: € 6.8 million
Funding for NRW: € 0.5 million

Tim Hülser
Institut für Energie- und
Umwelttechnik e.V.

www.futurenanoneeds.eu

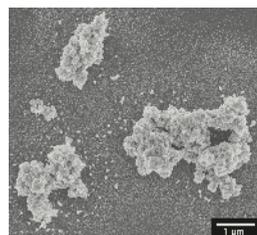


IUTA is a research institute in the field of energy and environmental technology and bridges the gap between basic research and industrial application. IUTA was a partner in the FP7 project:

Framework to respond to regulatory needs
of future nanomaterials and markets.

Future Nano Needs (FNN)

Rapidly developing markets such as green construction, energy harvesting and storage, advanced materials for aerospace, electronics and environmental remediation are potential key application targets for nanomaterials. FutureNanoNeeds developed a novel framework to enable naming, classification, hazard and environmental impact assessment of the next generation nanomaterials prior to their widespread industrial use. Several analysis tools formed the basis of a “value chain” regulatory process which allows a each nanomaterial to be assessed for different applications.



Nurogames GmbH PTwist

Open platform for plastics
lifecycle awareness



Project start: 01/2018
Project end: 12/2021
Total EU funding: € 1.82 million
Funding for NRW: € 0.2 million

Andrew Pomazanskyi
Nurogames GmbH

www.nurogames.com



PTwist aims to design, deploy and validate an open platform which will twist plastic reuse practices by boosting citizens' awareness, circular economy practices and sustainable innovation in line with the new plastics economy vision.

This will be achieved through crowdsourcing tools to enable the generation of an evolving plastic materials reuse taxonomy and an open plastic reuse machinery designs repository, a monetary system of PlasticTokens and PlasticWallets maintained by a blockchain-based architecture which will safeguard trusted plastics reuse transactions among citizens and inventors (such as fablabs), a citizens and communities rewarding and engagement methodology by interactive and collaborative gamification which embeds PlasticTokens crediting, a virtual marketplace for exhibiting and commercialising PTwist-inspired plastics reuse products monetised in the proposed PlasticTokens unit.

Cutting-edge gamification, analytics and circular economy mechanisms will be integrated in an open platform to be validated and stress-tested under a common use case methodology.



Project start: 01/2015
Project end: 12/2016
Total EU funding: € 4.7 million
Funding for NRW: € 0.85 million



Prof. Victor Tsetlin
Syneuro Ltd.

www.syneuro.ru

ISELPEP was based on many years' experience in fundamental research and practical applications.

Syneuro Ltd. (associated with the Shemyakin-Ovchinnikov Institute of Bioorganic Chemistry, RAS, Moscow) is recognised worldwide for the isolation of new peptides and proteins from snake and other animal venoms. The gold standard for the analysis of toxin-receptor interactions is electrophysiology, but current approaches must be miniaturised for very small amounts of natural toxins.



Viper Azemiops feae

The task was solved in collaboration with Ruhr University Bochum (Prof. Hollmann) and Dr. Lohmann Diaclean GmbH, a supplier of equipment and reagents. An electrophysiological mini-chamber was developed and used for the analysis of proteins and peptides. The project's success is also illustrated by the snake venom peptide azemiopsin which was isolated, characterised and shown to be an efficient myorelaxant in preclinical studies.



Electrophysiological
mini-chamber (prototype)



Project start: 03/2015
Project end: 09/2018
Total EU funding: € 1.7 million
Funding for NRW: € 0.2 million

Dr. Peter Kern
TH Köln -

www.enerwater.eu

University of Applied Sciences



The aim of ENERWATER is to develop, validate and disseminate an innovative standard methodology for continuously assessing, labelling and improving the overall energy performance of Wastewater Treatment Plants (WWTPs). For this purpose, a collaboration framework in the water treatment sector will be set up, including research groups, SMEs, water management companies, city councils, water authorities and industry. Subsequent objectives are to stimulate dialogue on the creation of specific European legislation, following the example of recently approved EU directives, and to establish a way forward to achieve EU energy reduction objectives for 2020, ensuring effluent water quality, environmental protection and compliance with the Water Framework Directive (FWD).

Project partners

- Universidad Santiago de Compostela USC (Spain)
- Wellness Smart Cities WSC (Spain)
- AENOR (Spain)
- Cranfield University of Verona UniVR (Italy)
- ETRA Spa ETRA (Italy)
- Aggerverband AV (Germany)



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