

Collaboration Chisinau – Kiel becomes traditional

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	Occupational activity
1996	Diploma in Physics at the State University of Moldova
1996 - 2006	Patent examiner, State Agency on Intellectual Property of the Republic of Moldova, Patent Expert (AGEPI)
2003	PhD thesis defense at the Institute of Applied Physics of Academy of Science
2007 - 2008	Fellowship at Christian-Albrecht-University of Kiel sponsored by Alexander von Humboldt Foundation
2008 - 2011	Scientific Collaborator (Postdoc), at Chair for General Materials Science, Christian Albrecht-University of Kiel
From 2011	Projects Coordinator, Research and Development Department, Phi-Stone AG Guest Scientist at Christian-Albrecht-University of Kiel





Nucleation of Kiel – Chisinau collaboration: Strasbourg, Conference on Material Science 1999

Prof. Helmut Föll General Materials Science, CAU



Prof. Ion Tighineanu National Center for Materials Study and Testing,TUM

Two great persons meet himself 2019 – 20 years of successful collaboration

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Kiel – Chisinau colaboration (since 1999)



Prof. Helmut Föll General Materials Science **Prof. Rainer Adelung** Functional Nanomaterials

Prof. Ion Tighineanu National Center for Materials Study and Testing

Prof. Dr. Lorenz Kienle Synthesis and real structure groupe









Results:

- 8 research projects (INTAS, DFG, Humboldt, EU)
- More than 150 publications!
- Many students visited and collaborate with TF CAU
- Workshops and Conferences



Perspective possibilities for cooperation with Phi Stone AG





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Positioning of Phi-Stone AG



Founded :

- 2012 as start-up / spin-off.
- 2014 restructured into FUMT R&D GmbH
- 2017 May, restructured into Phi-Stone AG

Goals & Tasks:

- Implementation of ideas from basic research into products (technology transfer)
- Mediation of questions from industry to research facilities (demand based)
- Licensing of patents and production of special components



Portfolio / Core competencies







ZIM: DKL/WEA **AiF**: Nanomet **Interreg**: Rollflex Patents & licenses (PVA is also shareholder of Phi Stone AG) Analytics, e.g.: SEM, Raman, ... Application training, Tech. consulting CSP-composites

e.g. in medical application, adhesion

Base product





Development of the t-ZnO CSP production



Flame transport synthesis



Particle & Particle Systems Characterization Volume 30, Issue 9, pages 775–783, September 2013





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Initiation of Rolllfex R2R Innovation Centre: Example:

to establish a connection between industry and universities and beyond the national borders of the regions (North Germany and South Denmark)

to contribute to the use of the large market potential for sustainable energy solutions by establishing the production of flexible OPV and OLEDs



http://rollflex.eu/de/rollflex-ein-innovationsprojektcenter/

Nanoscience Centre NanoSYD

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MADS CLAUSEN INSTITUTE



Christian-Albrechts-Universität zu Kiel





More about Interreg EU Program on www.interreg5a.eu







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Functionalized & encapsulation film



First results:

OLED Stack on PTU foils









We have good experience in collaboration with Moldova scientists and good basis for new joinable project applications



Acknowledgments



Partners & networks



Acknowledgments







Thank you for your attention!



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