

International Newsletter

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EDITORIAL

Dear Reader,

Over the past six months, we at Frankfurt University of Applied Sciences have been implementing exciting new initiatives and expanding existing collaborations with our partners around the world. In South America, our Urban Agglomerations master's program is being offered in collaboration with our partner institutions in Chile. In Asia, our Department of Business and Law is seeking new contacts to provide innovative opportunities for students. And finally, our Aviation Management MBA is really taking off, which I had the pleasure to personally witness at a recent graduation ceremony here at FRA-UAS. This is just a sneak peek into our current projects. I invite you to read on and find out what we are up to here at FRA-UAS and around the world!

Sincerely yours,

Prof. Dr. Frank E. P. Dievernich

TEACHING AND LEARNING

Over 4000 Airmiles (6000 km) to the Graduation Ceremony – MBA Aviation Management Graduates from India

The project “EU-India Institutional Capacity Building for the Civil Aviation Sector” has been initiated by the Indian Ministry of Civil Aviation and the EU Delegation to India to support the booming Indian aviation sector. Within this framework, FRA-UAS is striving to advance the knowledge of working professionals in the Indian aviation industry to European standards. Program Director Prof. Dr. Yvonne Ziegler, FRA-UAS, President Prof. Dr. Frank E. P. Dievernich, Project Director Mr. Pradeep Dissanayake and other faculty members now attended the graduation ceremony for the first round of successful graduates in Frankfurt. “We are happy to see the first group of EU-India MBA students receiving their Master’s Degree in Germany. Their success is well deserved and will enable them to spread their wings. They are now equipped with the skills required to operate within the ever-changing field of aviation industry and can actually be considered the top aviation experts in India,” remarked Prof. Dr. Yvonne Ziegler. FRA-UAS has successfully launched MBA programs in Delhi, Mumbai and Bangalore with over 50 Indian students enrolled. Please refer to www.aviation-MBA.in for further details.

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RESEARCH AND INNOVATION

Spacer Fabric Pavilion Wins Campus Competition Award for Innovation

Successful research on lightweight textile constructions in architecture is in progress in the department of Architecture, Civil Engineering, Geomatics at FRA-UAS. This research focuses on a new composite material derived from textile and foam materials, which is called FabricFoam®. An experimental spacer fabric pavilion has already been realized last summer and shows the promising technical and design potential of FabricFoam®. This spacer fabric pavilion won the Campus Competition Award in the category innovation. Over 130 projects participated in this nationwide competition. The student team led by Prof. Dr. Claudia Lüling won the award for their innovative new lightweight construction. With FabricFoam®, the research team also seeks to develop new solutions for climate-adequate temporary shelters around the world as well as for prefabricated single building elements, such as wall and roof elements. The main concern of the investigation is the further development of so-called spacer fabrics.

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Students sitting in the spacer fabric pavilion on the FRA-UAS campus.

NEWS AND EVENTS

FRA-UAS Presidential Committee Visits Universities in Southeast Asia

Aiming at consolidating existing cooperation agreements and developing new potentials for cooperation, respectively, FRA-UAS President Prof. Dr. Frank E. P. Dievernich and Vice President Prof. Dr. Kira Kastell visited several Southeast Asian Universities at the end of last year. Their itinerary started with a visit at the technically oriented Yangon Technological University, Myanmar. The trip then continued in Thailand. There, Prof. Dr. Dievernich signed a Memorandum of Understanding alongside the president of Ramkhamhaeng University. The next stop was at Chulalongkorn University; this institution would be pleased to send members of their faculty to Frankfurt for a term abroad in order to become acquainted on-site with the way the integration of an applied approach into (bachelor) studies is handled here. Subsequently, the trip continued at the private and internationally very active Bangkok University. This university is interested



President Prof. Dr. Dievernich and Vice President Prof. Dr. Kastell (both FRA-UAS) and the welcoming committee of Bangkok University. Vice President for International Affairs of Bangkok University Dr. Siriwan Ratanakarn (third from the right) had invited the FRA-UAS delegation to a short visit at this Southeast Asian university.

in inviting FRA-UAS students to one of their summer universities. The last stop on the itinerary was at King Mongkut's Institute of Technology Ladkrabang (KMITL). FRA-UAS intends to strengthen the already well-established contact with KMITL in the near future; for example, the universities plan to hold conjoint conferences in both Bangkok and Frankfurt. In accordance with the progressing internationalization at

FRA-UAS, Prof. Dr. Kastell subsequently traveled to the Vietnamese German University for a two-week teaching assignment.

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TEACHING AND LEARNING

Successful Ph.D. Defense at the Universidad de Cadiz



Dr. Rüdiger Gad at his Ph.D. defense in Cadiz, Spain.

Dr. Rüdiger Gad, a graduate of the M.Sc. program High Integrity Systems at FRA-UAS, successfully defended his dissertation, titled "Event-driven Principles and Complex Event Processing For Self-adaptive Network Analysis and Surveillance Systems" at the Universidad de

Cadiz (UCA) in Cadiz, Spain on July 29th, 2015. His research in Cadiz and at FRA-UAS was jointly supervised by Prof. Dr. María Inmaculada Medina Buló from UCA and Prof. Dr. Martin Kappes from FRA-UAS. Using state-of-the-art approaches, such as Event-driven Architecture (EDA) and Complex Event Processing (CEP), Dr. Gad's thesis concerns comprehensive network analysis and surveillance, both of which are integral for any organization. Prof. Dr. Matthias Wagner and Prof. Dr. Jörg Schäfer, both from FRA-UAS, also participated in Dr. Gad's successful dissertation defense.

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Master Program – High Integrity Systems

High Integrity Systems is a fully accredited computer science M.Sc. program at FRA-UAS, which encompasses a wide range of application fields in safety-critical areas (i.e. Internet of Things, automotive and machine building industries, chemical industries, aerospace systems, bio-medical technology) and business process areas (IT services, banking and finance, insurance, media). The program aims at providing core skills in Software Engineering and Development,

System Modeling and Simulation, IT-Security, Distributed Systems, DBMS, Smart Sensor Networks and Embedded Systems, Advanced Testing and Data Integrity. The language of instruction is English.

More information: <http://www.frankfurt-university.de/fachbereiche/fb2/studiengaengefb2/master-studiengaenge/high-integrity-systems/admission-requirements.html>

NEWS AND EVENTS

International Network Conference 2016 at FRA-UAS

FRA-UAS is proud to host the International Network Conference from July 19th to 21st this year. The conference, which will be the eleventh of its series, will bring together leading figures from academia and industry to present and discuss the latest advances in networking technologies from research and commercial perspectives. Program and details are currently co-organized by the Centre of Competence for Computer Networks and Distributed Systems at FRA-UAS and the Centre for Security, Communi-

cations and Network Research at Plymouth University (UK). The deadline for submission of papers has been extended to February 29th, 2016. Please refer to <http://www.frankfurt-university.de/en/fachbereiche/fb2/forschung-institute-projekte/frankfurt-am-main-doctoral-node/inc-2016.html> for further details.

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NEWS AND EVENTS

Adapting Cities after Natural Disasters – International Workshop in Concepción, Chile

For countries prone to destructive earthquakes such as Chile, it is important to define strategies in order to adapt their cities accordingly. Recognizing the relevance of this issue, FRA-UAS faculty members Prof. Dr. Michael Peterek and Dipl.-Ing., M.Sc. Caroline Günther participated in a workshop at the Universidad del Bío-Bío in Concepción, Chile from October 5th to 9th, 2015. The workshop topic, „Global Climatic Change, Natural Disaster and Resilience“, concentrated on future prevention strategies, as well as on mitigation. In the course of this workshop the annual network meeting of the „Urban Knowledge Network“ of the Master Program „Urban Agglomerations (M.Sc.)“, which all Latin American partner universities attended, took place as well. Both FRA-UAS faculty members participated in this event and subsequently invited their partners to continue the discussion at the next annual network meeting, which will be held at the Frankfurt University of Applied Sciences in October 2016. Please refer to www.urban-agglomerations.eu for further details.



Tsunami-resistant social housing project at Dichata, Chile.

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RESEARCH AND INNOVATION

Kick-off Conference in Bishkek, Kyrgyz Republic



Conference attendees in Bishkek, Kyrgyz Republic in November 2015.

The overall objective of the Central Asia Drug Action Program (CADAP, Phase 6) is to strengthen the capacity of the five Central Asian (CA) countries to deal with the drug phenomenon in the respective regions in a comprehensive, integrative, and sustainable manner. FRA-UAS is responsible for operating within one part of this major EU Project. Specifically, Prof. Dr. Stöver from FRA-UAS is exploring treatment and harm reduction programs in this geographic area. In connection with this program, Prof. Dr. Stöver attended the opening conference of the CADAP in

Bishkek/Kyrgyz Republic in November 2015. The meeting was important for the project, as participants defined steps and milestones for the program and had the opportunity to engage in professional networking in order to strengthen their relations.

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NEWS AND EVENTS

On the Road to New Partnerships – 20376 Airmiles (32792 km), 16 Days, 11 Institutions, 6 Countries



Dean Prof. Abdullah Zaini (front row, center) and his colleagues from the Business School University Teknologi Mara welcomed Dean Prof. Dr. Swen Schneider (FRA-UAS) and his delegation in Shah Alam, Malaysia.

The Department of Business and Law is proud to send over 100 students to partners abroad this winter semester. However, demands for more partnerships with institutions in Asian countries prompted the department to seek out even more new opportunities for its students. Prof. Dr. Swen Schneider, Dean, led a delegation to visit potential partner institutions in Oman and East and Southeast Asia. One of the trip highlights included a visit to Yokohama, Japan, a sister city of Frankfurt. In addition, the delegation met with the Japanese DAAD Office (German Academic Exchange Service) to gather more information about the higher education system in Japan. Equally exciting, the group met with current FRA-UAS exchange students in Seoul, South Korea to learn about their experiences. The trip was highly successful, allowing the department to establish two new partnerships with Sanda University in Shanghai, China, and Ramkhamhaeng University in Bangkok, Thailand.

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RESEARCH AND INNOVATION

Pilot Treatment Plant for Highway Run-offs

Street run-off occurs when rain rinses the surfaces of streets. Depending on traffic intensity, streets can end up being strongly polluted with harmful substances. As a result, water treatment is necessary before transferring run-off water into rivers or ground water. In Germany, water treatment processes are often centralized, that is, run-off water is filtered through large storm water sedimentation tanks, or decentralized, utilizing green or technical suds (sustainable drainage systems). FRA-UAS was part of a research project developing a device to treat highway run-off of about one hectare of drainage area. The device involves two processes, i.e. sedimentation of solids in a separator device and heavy metal and phosphorous reduction in filters, and was successfully tested near a highway close to the German city of Gießen. Devices such as the one developed with the aid of Prof. Dr. Welker from FRA-UAS can ensure the cleanliness of our water resources.



Pilot plant near Gießen, Germany.

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NEWS AND EVENTS

You Will Never Walk Alone – FRA-UAS Developed New Collaboration Pathways in Its Summer Programs

Short-term programs are a fantastic alternative to longer international stays for students. The summer universities at FRA-UAS have developed innovative new programs with existing partner universities to offer attractive programs.

European Summer University in Logistics

The Rotterdam Business School and the Frankfurt University of Applied Sciences share the same approaches to teaching and expertise in the field of logistics. This is an excellent reason for international students to participate in this short-term program. Students gain an overview of logistics both in and outside the classroom.

Frankfurt Hessen: International Summer University

In a unique collaboration with Goethe University, ISU Frankfurt offers an annual short-term summer program in European Finance and European Studies. Students get to experience their studies at both a university of applied sciences and a research university in Germany. Participating lecturers come from both institutions, and the program includes highly relevant field trips to places such as the European Central Bank, the European Parliament, and the German Stock Market. The program has been successfully held since 2002.

The goals of the summer universities are to enhance existing partnerships as well as to intensify our network and to expand teaching experiences. Read more about our exciting summer university programs:



Waller/FRA-UAS

Participants from ISU 2014 are on their way to a workshop on the FRA-UAS campus.

More information is available at www.esu-frankfurt.de and at www.isu-frankfurt.com.

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