

IORA Workshop 2019

on

**Biomedical Engineering and other Innovative
Technologies with relevance to Post-Disaster Situations**

Institute of Physiology
RWTH Aachen University Hospital, Germany
in collaboration with
IORA-RCSTT

November 18 - 21, 2019

Monday, 18. November 2019

Session 1 - Venue Centre Charlemagne

09:00	K. Mottaghy	Opening ceremony
09:15	R. Tolba	Welcome address by the Dean of Research, Medical Faculty
09:30	T. Miremadi	Welcome address by the Director of IORA RCSTT
09:45	A. Lampert	Pain: molecular basis & clinical picture
10:30 - 11:00	<i>Coffee break</i>	
11:00	J. C. Brokmann	Telemedicine systems in prehospital setting
11:45	F. Hildebrand	Trauma Care in Germany
12:30 - 14:00	<i>Lunch break</i>	

Session 2 - Venue ITA

14:30	T. Gries	Smart textile medical solutions
15:00 - 16:00	<i>Visit to ITA & Coffee break</i>	
		<i>Institute of Textile Technology</i>
16:00	A. Hahn	Disaster preparedness for infectious diseases – The significance of the drinking water safety
16:30	H. Schüttrumpf	Flood events and the role of smart sensor technologies
17:00	<i>Visit to IWW</i>	
		<i>Institute of Hydraulic Engineering and Water Resources Management</i>
19:00	<i>Dinner</i>	

Tuesday, 19. November 2019

Session 3 - Venue AGIT

09:00	S. Leonhardt	Closed-loop control of therapy in post-disaster situations
09:45	S. Yüce	Sea water desalination: state of the art and novel trends
10:30 - 11:00	<i>Coffee break</i>	

Session 4 - Venue AGIT

11:00	K. Endo	Revitalization of Fukushima Prefecture and challenges of creating new industries
11:30	H. Nakajima	A novel antioxidant dialysis treatment and a new small portable X-ray tube
12:00	C. De Lazzari	Telemedicine and telehealth in disaster management: Italian projects
12:45 - 14:00	<i>Lunch break</i>	

Session 5 - Venue AGIT

14:00	A. Lechleutner	Increasing numbers of EMS Calls - what is the response of international EMS services
14:45	R. Tolba	Innovative concepts in organ transport
15:30	S. Sopka	Innovative approaches in training and teaching concerning patient safety
16:00 - 16:30	<i>Coffee break</i>	
16:30	T. Schmitz-Rode	Innovative systems for cardiopulmonary devices
19:00	<i>Dinner in Aachen city center</i>	

Wednesday, 20. November 2019

Visit to MEDICA - COMPAMED Exhibition Dusseldorf

09:30	Departure from Hotel in Aachen
17:30	Departure from Medica

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Thursday, 21. November 2019 (*optional*)

Session 6 - Venue Uniklinik

10:00 - 12:00	K. Mottaghy	Round table discussion – Seminar hall
12:00 - 14:00	<i>Visit to Helmholtz-Institute for Biomedical Engineering</i>	

Information about the Venues

Centre Charlemagne

New City Museum Aachen
Katschhof 1
52062 Aachen

ITA - Institute of Textile Technology

Otto-Blumenthal-Straße 1
52074 Aachen

IWW - Institute of Hydraulic Engineering and Water Resources Management

Mies-van-der-Rohe-Straße 17
52056 Aachen

AGIT - Aachener Gesellschaft für Innovation und Technologietransfer mbH

Dennewartstr. 25-27
52068 Aachen

Helmholtz-Institute for Biomedical Engineering

Pauwelsstraße 20
52074 Aachen

Uniklinik - RWTH Aachen University Hospital

Pauwelsstraße 30
52074 Aachen

List of Speakers

Prof., Dr. rer. nat. Khosrow Mottaghy
Institute of Physiology
Head of ECC Research Lab
RWTH Aachen University Hospital, Germany

Prof., Dr. med. René H. Tolba
Dean of Research, Medical Faculty
Head of Institute of Laboratory Animal Science
RWTH Aachen University Hospital, Germany

Dr. Tahereh Miremadi
Director of IORA Regional Center for Science and Technology Transfer (RCSTT)
Tehran, I.R. Iran

Prof., Dr. med. Angelika Lampert
Institute of Physiology
Head of Neurophysiology Research Group
RWTH Aachen University Hospital, Germany

PD, Dr. med. Jörg Christian Brokmann
Head of Emergency Department
RWTH Aachen University Hospital, Germany

Prof. Dr. med. Frank Hildebrand
Head of Trauma and Plastic Surgery Clinic,
School of Physiotherapy Principal
RWTH Aachen University Hospital, Germany

Prof. h. c. (MGU) Dr.-Ing. Dipl.-Wirt. Ing. Thomas Gries
Head of ITA - Institute of Textile Technology and Chair for Textile Machinery
RWTH Aachen University, Germany

Dr. med. Dr. rer. nat. Axel Hahn
BfR Senior Fellow for Environmental Medicine
Former Head of Poison and Product Documentation Centre
Federal Institute of Risk Assessment (B f R)
Berlin, Germany

Prof. Dr.-Ing. Holger Schüttrumpf
Head of IWW - Institute of Hydraulic Engineering
and Water Resources Management
RWTH Aachen University, Germany

Prof. Dr. med. Dr.-Ing. Dr. h. c. K. Steffen Leonhardt
Chair of Medical Information Technology
Helmholz Institute for Biomedical Engineering
RWTH Aachen University, Germany

Dr.-Ing. Süleyman Yüce
Managing Director of STEP Consulting GmbH, Aachen
Senior Scientist, AVT Chemical Process Engineering Department
RWTH Aachen University, Germany

Dr. Katsuyuki Endo
Assistant Director, Medical Industry Cluster Promotion Unit
Commerce, Industry & Labour Department
Fukushima Prefectural Government, Japan

Hidetoshi Nakajima
President of Pureron Japan Co., Ltd.
Iwaki City, Japan

Dr. Eng. Claudio De Lazzari
Institute of Clinical Physiology
National Research Council (C.N.R.)
Rome, Italy

Prof. Dr. med. Dr. rer. nat. Alex Lechleuthner
Head of Institute of Rescue Engineering and Civil Protection
TH Köln, Germany

Dr. med., SpR Sasa Sopka
Department of Anaesthesiology
Head of AIXTRA - Interdisciplinary Training Center for Medical Education
RWTH Aachen University Hospital, Germany

Prof. Dr. med. Dipl.-Ing. Thomas Schmitz-Rode
Head of Institute of Applied Medical Engineering
Helmholz Institute for Biomedical Engineering
RWTH Aachen University, Germany