

FAU's 275th Anniversary Symposium

Future of Research – Research of the Future

Programme



Our anniversary partners:

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Cooperation Partner **ZiWiS**
(Center for Applied Philosophy of Science and Key Qualifications)

Thursday, January 18th | Ulmenweg 18, Erlangen

08.00–09.00	FOYER: REGISTRATION	
09.00–09.20	HALL 1 (GROSSER HÖRSAAL): Welcome and Introduction Prof. Dr. Joachim Hornegger, President of FAU	
09.30–10.45	HALL 1, Keynote Biological targets and drugs of the future: Molecular physiology meets chemistry Prof. Brian Kobilka, M.D., Stanford, Prof. Dr. Peter Gmeiner, Erlangen Session Chair: Prof. Dr. Joachim Hornegger, President of FAU	
11.00–12.30	PARALLEL LECTURES	
	HALL 1 (GROSSER HÖRSAAL) Scientific Methods and Development of University Session Chair: Prof. Dr. Günter Leugering, Vice President of FAU	HALL 2 (KLEINER HÖRSAAL) Values in a globalized world Session Chair: Prof. Dr. Heike Paul, FAU, Erlangen
11.00–11.45	Prof. Dr. Stephan Hartmann, Munich: Simulations and the Future of Research	Prof. Dr. Heiner Bielefeldt, FAU, Erlangen Human Rights: Towards a Non-Harmonious Consensus
11.45–12.30	Prof. Dr. Carsten Dreher, Berlin: Contradiction in terms or methods to madness? Outlook on the role of foresight and strategic development of universities	Andrea Kuhn, Nuremberg: Human Rights Films: Between Impact and Integrity
12.30–13.30	FOYER: LUNCH	

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13.30–15.00	PARALLEL LECTURES	
	HALL 1 Science, Society and Risk Management Session Chair: Prof. Dr. Kathrin Möselein, Vice President of FAU	HALL 2 Energy and Climate challenges Session Chair: Prof. Dr. Veronika Grimm, FAU, Erlangen
13.30–14.15	Prof. Dr. Sabine Maasen, Munich: Science of the future: research and innovation with and for society	Prof. Dr. Martin Bichler, Munich: Markets as Policy Tools: About Phones, Fish, Energy, and Algorithms
14.15–15.00	Dr. Rafael Popper, Finnland: Foresight and the Future of Science	Prof. Dr. Dirk Guldi, FAU, Erlangen: Molecular Basis for Energy Conversion and Storage
15.00–15.30	FOYER: COFFEE BREAK	
15.30–17.00	PARALLEL LECTURES	
	HALL 1 Funding and Industry Research Session Chair: Prof. Dr. Friedrich Paulsen, Vice President of FAU	HALL 2 Future of Medical Engineering Session Chair: Prof. Dr. Ben Fabry, FAU, Erlangen
15.30–16.15	Klaus Uckel, Bonn: DLR Projektträger: A reliable partner for research, innovation and education	Prof. Dr. Jürgen Schüttler, FAU, Erlangen: Health Technology Innovations and the future role of physicians
16.15–17.00	Dr. Frank Anton, Siemens AG, Erlangen: Future of Industry Research and Collaboration	Prof. Dr. Erich R. Reinhardt, Medical Valley EMN e.V., Erlangen: Digital Health 4.0
18.00–19.00	AUDIMAX, BISMARCKSTR. 1 Evening lecture (open to public, DEUTSCHSPRACHIG) Dr. h.c. Thomas Reiter, Director General at the ESA, Darmstadt: Die Exploration des Weltraums – Aktuelle Höhepunkte und zukünftige Entwicklungen Session Chair: Prof. Dr. Joachim Hornegger, President of FAU	

Friday, January 19th | Ulmenweg 18, Erlangen

08.45–09.15	FOYER: COFFEE	
09.15–10.00	HALL 1 (GROSSER HÖRSAAL), Keynote: Prof. Dr. Andreas Diefenbach, Charité Berlin: How the microbiota controls the setpoint of the innate immune system	Due to illness, Prof. Dr. zur Hausen will not be able to give his keynote speech
10.00 –10.45	Prof. Dr. Gerhard Krönke, FAU, Erlangen: Mechanisms and therapy of chronic inflammatory diseases Prof. Dr. Christian Bogdan, FAU, Erlangen: Reactivation of chronic infections following immunosuppression Prof. Dr. Ralf Linker, FAU, Erlangen: Pathogenesis and therapy of multiple sclerosis Session Chair: Prof. Dr. Joachim Hornegger, President of FAU	
11.00–12.30	PARALLEL LECTURES	
	HALL 1: Journalism and Communication Session Chair: Prof. Dr. Antje Kley, Vice President of FAU	HALL 2: Digital World Session Chair: Prof. Dr. Alexander Martin, FAU, Erlangen
11.00–11.45	Volker Stollorz, Cologne: Alternative facts or Enlightenment? Challenges in the age of digitalized science communication	Prof. Sebastian Pokutta, Ph.D., Atlanta: Machine Learning and Decision-making in the Real-World
11.45–12.30	Henriette Löwisch, Munich: Communicating Science under Trump: how researchers and journalists in the US are reacting to populism and media crisis	Prof. Albert Heuberger, FAU, Erlangen: The Future of Cognitive Sensors
12.30–13.30	FOYER: LUNCH	

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13.30–15.00	PARALLEL LECTURES	
	HALL 1: What tomorrow's world is made of Session Chair: Prof. Dr. Andreas Hirsch, FAU, Erlangen	HALL 2: Medical Challenges of the Future Session Chair: Prof. Dr. Falk Nimmerjahn, FAU, Erlangen
13.30–14.15	Prof. Dr. Robert Schlögl, Berlin: Sustainable Energy: Systems and Science	Prof. Lucy Walker, London: CTLA4 and the future of immunotherapy
14.15–15.00	Prof. Dr. Wolfgang Peukert, FAU, Erlangen: Material design by process innovation	Prof. Dr. Thomas Brabletz, FAU, Erlangen: Mechanisms of Tumor metastasis PD Dr. Claudia Günther, FAU, Erlangen: Induction of cell death in tumors Prof. Dr. Gerold Schuler, FAU, Erlangen: Immunotherapy of malignant tumors
15.00–15.30	FOYER: COFFEE BREAK	
15.30–17.00	PARALLEL LECTURES	
	HALL 1: The Future of Work Session Chair: Prof. Dr. Claus Schnabel, FAU, Nuremberg	HALL 2: Light matters Session Chair: Prof. Dr. Peter Hommelhoff, FAU, Erlangen
15.30–16.15	Prof. Michael C. Burda, Berlin: The Future of Work: An Economist's Perspective	Prof. Dr. Christophe Salomon, Paris: Laser cooled atoms on Earth and in Space
16.15–17.00	Panel discussion: Prof. Dr. Lutz Bellmann, FAU, Nuremberg; Prof. Dr. Cornelia Niessen, FAU, Erlangen; Prof. Dr. Rainer Trinczek, FAU, Erlangen	Dr. Peter Banzer, FAU, Erlangen: Structured Fields and Light-Matter-Interactions at the Nanoscale
17.15–18.15	HALL 1, Keynote: Prof. Dr. Peter Strohschneider, Bonn: The Rationale Behind Knowledge-Driven Research Funding Session Chair: Prof. Dr. Joachim Hornegger, President of FAU	
18.15–18.30	Closing Statement by Prof. Dr. Joachim Hornegger, President of FAU	