



EUCHEM Conference on Stereochemistry Brunnen, Switzerland

'Bürgenstock Conference'

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47th Euechem Conference on Stereochemistry Brunnen, April 29 - May 4, 2012

President: **Andreas Pfaltz**
 Vice-President: **Luisa De Cola**
 Guest of Honor: **Albert Eschenmoser**

Roger Y. Tsien	SUNDAY Evening Session – Moderator: Jeremy K. M. Sanders Building molecules to image electric fields and guide therapy
Frank Glorius	MONDAY Morning Session – Moderator: Clément Mazet Stories on design & surprise: C-H activation, asymmetric arene hydrogenation and NHC organocatalysis
Vy Dong	A few of my favorite rings: Catalysis inspired by lactones and lactams
Luisa De Cola	MONDAY Evening Session – Moderator: Gerard Van Koten Functional structures by self-assembly. Properties and applications
Sarah E. O'Connor	TUESDAY Morning Session – Moderator: Bernd Giese Elucidation, evolution and mechanistic analysis of natural product pathways
Virginia Cornish	Expanding the synthetic capabilities of the cell
Paul A. Wender	TUESDAY Evening Session – Moderator: Mohammad Movassaghi Toward transformative therapies and the ideal synthesis: strategies to eradicate AIDS, treat Alzheimer's disease and overcome resistant cancer
Bernhard Jaun	WEDNESDAY Morning Session – Moderator: Bernhard Kräutler Probing the catalytic mechanism of methyl-coenzyme M reductase, the key enzyme of methane formation and functionalization by archaea
Milan Mrksich	Label-free screening for the discovery of chemical and biochemical reactions
Douglas W. Stephan	THURSDAY Morning Session – Moderator: Luisa De Cola Frustrated lewis pairs: a new avenue to small molecule activation and catalysis
Stefan Grimme	Dispersion interactions in chemistry from a DFT perspective
Ei-ichi Negishi	THURSDAY Evening Session – Moderator: Shu Kobayashi Zr-Catalyzed Asymmetric Carboalumination of Alkenes (ZACA). Its recent development
Takashi Ooi	FRIDAY Morning Session – Moderator: Jieping Zhu Molecular design of organic ion pairs for asymmetric catalysis
Thomas R. Ward	Artificial metalloenzymes: recent progress and challenges