

*Advanced Concepts for Catalysis in Synthesis
and Flow Chemistry*

Prof. Thomas Wirth

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Thursday 20th September, 2012. ICIQ Auditorium, 12 p.m.

Professional career



Thomas Wirth is professor of organic chemistry at Cardiff University. After studying chemistry in Bonn/Germany and at the Technical University of Berlin/Germany, he obtained his PhD in 1992 with Professor S. Blechert. After a postdoctoral stay with Professor K. Fuji at Kyoto University a JSPS fellow, he started his independent research at the University of Basel/Switzerland. In the group of Professor B. Giese he obtained his habilitation on stereoselective oxidation reactions supported by various scholarships before taking up his current position at Cardiff University in 2000. He was invited as a visiting professor to a number of places including the University of Toronto/Canada (1999), Chuo University in Tokyo (2000), Osaka University (2004), Osaka Prefecture University (2008) and with a JSPS fellowship to Kyoto University (2012). He was awarded the Werner-Prize from the New Swiss Chemical Society (2000). His main interests of research concern stereoselective electrophilic reactions, oxidative transformations with hypervalent iodine reagents including mechanistic investigations and organic synthesis performed in microreactors.

Recent Publications

- "Diselenide- and Disulfide-Mediated Synthesis of Isocoumarins"
S. A. Shahzad, C. Venin, T. Wirth, *Eur. J. Org. Chem.* **2010**, 3465 – 3472.
- "A practical microreactor for electrochemistry in flow"
K. Watts, W. Gattrell, T. Wirth, *Beilstein J. Org. Chem.* **2011**, 7, 1108 – 1114.
- "Selenium-catalyzed Regioselective Cyclization of Unsaturated Carboxylic Acids Using Hypervalent Iodine Oxidants"
F. V. Singh, T. Wirth, *Org. Lett.* **2011**, 13, 6504 – 6507.
- "Ritter Reactions in Flow"
L. Audiger, S. C. Elmore, R. I. Robinson, T. Wirth, *ChemSusChem* **2012**, 5, 257-260.
- "Highly Stereoselective Metal-free Oxyaminations using Chiral Hypervalent Iodine Reagents"
U. Farid, T. Wirth, *Angew. Chem. Int. Ed.* **2012**, 51, 3462 – 3467.