

## Biography:

Jarl Ivar van der Vlugt (1975) studied chemistry & chemical engineering at the Eindhoven University of Technology (TU/e) in the Netherlands, from late 1993 till early 1999. He then joined the newly established Homogeneous Catalysis group of prof. Dieter Vogt at the TU/e and in late 2003 also became the first member of the group to earn his PhD. degree. For the work described in his thesis, dealing with the design of novel, versatile ligand scaffolds and their application in the Rh-catalyzed hydroformylation, he was awarded the 2003-2004 Catalysis Prize of the Royal Dutch Chemistry Association (KNCV). After a short stay as a research fellow in Eindhoven, he switched gears (and continents) and moved to the University of Illinois at Urbana-Champaign (USA) in early 2004 to carry out postdoctoral research with prof. Tom Rauchfuss in the area of bioinorganic chemistry, working on small-molecule models for the Fe-only hydrogenase active site. Supported by an Alexander-von-Humboldt Fellowship he moved to the Georg-August-Universität Göttingen in Germany in late 2005 to join the research group of prof. Franc Meyer, where he developed new dinucleating bipyridyl functionalized pyrazolate ligands predestined for self-assembly. Mid 2006 he was awarded a VENI Innovation Grant by the Dutch Science Foundation (NWO) and he relocated to the TU/e at the beginning of 2007 to start his independent research (in the group of prof. Vogt) in the area of homogeneous catalysis and coordination chemistry, with a focus on N-H activation, hydroamination catalysts, non-innocent ligands and cooperative effects in catalysis. Late 2008 he moved to his present position as assistant professor in the Supramolecular and Homogeneous Catalysis group of prof. Joost Reek at the University of Amsterdam (UvA) in the Netherlands. He received a prestigious ERC Starting Grant for the period 2012-2017 and he currently heads a group of 4 PhD students; he is also committed as co-PI to several other projects (both PhD and PDF) within the research group. He is actively involved in teaching on both B.Sc. and M.Sc. levels, with emphasis on inorganic chemistry, organometallic chemistry, homogeneous catalysis and bioinorganic chemistry as well as supervising various laboratory courses. He is a member of the national HRSMC and NIOK Research Schools and the EU COST action "PhoSciNet".

## Funding - granted

### Principal Investigator (PI)

- NWO-CW VENI grant 2007-2010
- ASPECT grant (NWO-ACTS) 2009
- CATCHBIO grant (SmartMix) 2009
- EVONIK research grant 2011
- ERC Starting Grant 2012-2017 *EuReCat*

### Co-Investigator (co-PI)

- ECHO grant (NWO-CW) 2009
- NRSCC grant 2009
- FOM grant (NWO) 2011
- BioSolarCells grant (FES) 2011
- NRSCC grant 2012

## Personal Grants, Awards and Prizes

- KNCV Catalysis Prize 2003-2004 (Royal Dutch Chemical Society)
- Humboldt Research Fellowship 2005-2006 (Alexander von Humboldt Foundation)
- NWO-CW VENI Innovation Grant 2007-2010 (the Netherlands Organization for Scientific Research)
- FCI Conference Travel Grant 2009 (Fonds der Chemischen Industrie)
- JSP Fellow – 46<sup>th</sup> EUCHEM (Bürgenstock) Conference on Stereochemistry 2011
- ERC Starting Grant 2012 (European Research Council; 3 PhD & PD)

## Academic & Scientific Responsibilities, Outreach, Media Coverage

- Principal Investigator, Junior Research Group (UvA) – 5 co-workers
- Staff member, Supramolecular and Homogeneous Catalysis (HIMS, UvA)
- Referee for various international scientific journals and (inter)national granting agencies
  - *Nature Chem.*; *Chem. Rev.*; *Angew. Chem. Int. Ed.*; *J. Am. Chem. Soc.*; *Chem. Eur. J.*; *Chem. Commun.*; *Inorg. Chem.*; *Adv. Synth. Catal.*; *Organometallics*; *Dalton Trans.*; *Eur. J. Inorg. Chem.*; *ChemCatChem*; *Catal. Sci. Technol.*; *ERA-NET*; *NWO-CW*; *ACS-PRF*
- Workgroup Academic Capabilities & BSc. Tutorage for Chemistry students
  
- Session Chair “Coordination & Organometallic Chemistry”, Netherlands’ Conference on Chemistry and Catalysis (NCCC) 2010
- Session Chair “Homogeneous Catalysis” NCCC 2012
- Organizing & Scientific Committee, 19<sup>th</sup> International Conference on Phosphorus Chemistry (ICPC), Rotterdam, the Netherlands, 2012
- Lecturer, BioSolarCells Winter School *The Artificial Leaf* – Jan 30 – Feb 2, 2012, Twente University  
Title: ‘Proton Reduction Catalysis’
- “Catalysis for Sustainable Energy”, popular lecture, Nov 7, 2011, Hogeschool van Amsterdam
- “Focus on Research”, coverage on the website of University of Amsterdam (related to ERC grant)  
<http://www.uva.nl/en/about-the-uva/organisation/faculties/content/faculteit-der-natuurwetenschappen-wiskunde-en-informatica/shared-content/focus-on-research-hims/focus-on-research-chemist-jarl-ivar-van-der-vlugt.html>

**Co-workers** (University of Amsterdam; # shared with prof.dr. J.N.H. Reek; § shared with dr. B. de Bruin)

### *Postdoctoral Fellows:*

Dr. Ronald Lindner (2009)*	(now at BASF CarLa, Heidelberg)
Dr. Rick Bauer (2010)*	(now at 3M Canada)
Dr. Michel Ferreira (2010)*	(now assistant professor, Univ. Artois, France)
Dr. Arnaud Perrier (2011)*	(now at LCC Toulouse, France)
Dr. Yann Gloaguen (2011-2012)*	(now at UvA)
Dr. Sofia Derossi (2012)*	(now at Manders&Evers subsidy consulting, Netherlands)

### *PhD. Students:*

Bart van den Bosch (2010-2014)<sup>#</sup>  
Sandra de Boer (2011-2015)\*  
Zhou Tang (2011-2015)<sup>§</sup>  
Linda Jongbloed (2012-2016)\*  
Vincent Vreeken (2012-2016)\*  
Danny Broere (2012-2016)\*  
René Becker (2012-2016)<sup>#</sup>

### *MSc. Students:*

Bart van den Bosch (2009)  
Mark Rong (2010)  
Sandra de Boer (2010-2011)  
Lianne Jongens (2011-2012)  
Martijn Newsum (2012)

## Covers:



## Financial Support:

