

CURRICULUM VITAE PROF. DR. IR. KRIJN DE JONG

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Education

- Chemistry at Utrecht University in the period 1973-1978. The 'bachelor degree' was received *cum laude* with major chemistry and minor physics. The 'master degree' (*cum laude*) comprised inorganic and solid state chemistry working with Prof. J.W. Geus and Prof. G. Blasse, respectively.
- Ph.D. (1978-1982) was supervised by Prof. J.W. Geus at Utrecht University, encompassed the preparation and characterization of highly dispersed mono- and bi-metallic catalysts and obtained *cum laude*.
- A master degree (Ir.) in chemical engineering was obtained in 1988 through a part time program at the University of Twente. MSc thesis with Prof. W.P.M. van Swaaij.

Professional career/positions

- Shell Research, 1982-1997
 - For 3 years new synthesis techniques for heterogeneous catalysts were developed while using advanced characterization and testing techniques.
 - In the period 1985-1989 work on hydroconversion of heavy oil was carried out involving catalytic, reactor and economic aspects. Research on environmental processes (gas treating predominantly) was addressed in 1989-1990.
 - In the period 1990-1995 he led a group of 15-20 researchers to carry out exploratory process research in a broad area of oil and gas conversion technologies.
 - A position as Technology Manager for basic and exploratory process research was held in 1996-1997; in two departments (40 people) a wide range of fundamental and applied research in heterogeneous catalysis was covered, a.o. oil conversion, acid catalysis, synthesis gas conversion, high temperature catalysis, and epoxidation.
- Professor, Inorganic Chemistry and Catalysis, Utrecht University, 1997-present.
 - Research comprises preparation/assembly and characterization of nanostructured solid catalysts. Catalysis studies are in the fields of synthesis gas chemistry, hydrogenation and organic synthesis in the liquid phase and hydrocarbon conversions. For an update of research projects see <http://www.inorganic-chemistry-and-catalysis.eu/>.
 - Teaching and education involves Inorganic Chemistry for BSc students and Catalysis courses for MSc and PhD students.
 - Director of Education, Department of Chemistry, Utrecht University (2003-2006).
 - Scientific Director of the Debye Institute for Nanomaterials Science (2012-2015).
 - Vice-Head of the Department of Chemistry (2015-2018).

Advisory/professional activities – selection

- Member of the program committee of the IOP Catalysis; chairman of the expert group 'Catalyst Preparation/Reactor Technology' within this IOP (1991-1997).
- Evaluation Panel NWO/CW, area Chemistry and Technology (1998-1999).
- Panel for Top Program Grants NWO/CW (1998-2000).
- Consultant to Royal Dutch Shell (1999 onwards).
- Board member of NIOK (1998- 2017).
- Program committee Utrecht Centre for Energy Research, UCE (1999-2004).
- Member Management Team NRSCC (Toponderzoeksschool Katalyse).
- Board "Carolus de Maets", Chemistry Alumni, Utrecht University (2008-2012).
- Expert Netherlands Parliament on Carbon Capture and Storage (2009).
- Consultant to BP (2008, 2010).
- Mentor for Female Science Talent at Utrecht University (2009 onwards).
- Member of the NWO Assessment Committee for VICI proposals (2012-2017)
- Member KNCV (Sections Catalysis and Process Technology).
- Member American Chemical Society.
- Member of the Technology Advisory Council (TAC) of BP (2012-present).
- Consultant to Avantium (2014-present)

International activities & conferences – selection

- Member of ACENET-WP4 on European education in catalysis.
- Definition of EU research program Joule III and expert for proposal evaluation.
- Member "Natural Gas Conversion Board" (2004 onwards).
- Member International Board "Carbon in Catalysis Conferences" (2004 onwards).
- Board Member "Acid Base Catalysis" (2005 - 2012).
- Promotor for Prof. Avelino Corma as doctor *honoris causa* (2006).
- Member Netherlands Committee World Petroleum Congress (2008 onwards).
- Advisory Board of the Int. Conf. on Environmental Catalysis (2008-2012).
- Vice-chair Netherlands Catalysis and Chemistry Conference (2009, 2010).
- Chair Netherlands Catalysis and Chemistry Conference (2011, 2012).
- International advisory board of ZMPC2012 (Zeolites and Microporous Materials).
- Member Scientific Committee of the British Zeolite Association (BZA) (2011, 2012).
- Member of scientific committee of the Symposium SynFuel (2012).
- Steering Committee 'Novel Gas Conversion Symposium', March 2013, Qatar.
- Member International Adv. Board Acid Base Catalysis, ABC-7 (2013).
- International advisory committee of IMMS2013 (8th International Mesostructured Materials Symposium).
- International advisory board of ZMPC2015 (Zeolites and Microporous Materials).
- Elected Chair "Natural Gas Conversion Board" (2013-present).
- Evaluation Methusalem research program KU Leuven (2014).
- International Advisory Committee of PCOSS at Xiamen University (2015-present).
- Board Member of the Green Technology Organization (GTO) supported by the Chinese Academy of Sciences (2018-present).

Editorial positions

- Editorial Board of Applied Catalysis (1998 - 2003).
- Editorial Board of Catalysis Letters (1998 onwards).
- Editorial Board of Topics in Catalysis (1999 onwards).
- Editorial Advisory Board of Chemisch2Weekblad (2000-2004).
- Editorial Board Journal of Catalysis (2010 onwards).
- Editorial Board ChemPlusChem (2011 onwards).
- Editorial Advisory Board for Journal of Energy Chemistry (2012 onwards).

Awards/publications/lectures/supervision

- Bachelor Degree Chemistry (1976) – *cum laude* (~5% of students).
- Unilever Chemistry Award (1977).
- Master Degree Chemistry (1978) – *cum laude* (~10% of students).
- PhD in Chemistry (1982) – *cum laude* (~10% of students).
- Shell Patent Award – Hydro-Catalytic Thermal Cracking (1987).
- Shell Patent Award – Butene Skeletal Isomerization Using Ferrierite (1991).
- Proton Award - Elected Best Lecturer Bachelor Chemistry (2005).
- TOP Research Grant NWO-CW (2008).
- Visiting Professor, University of Poitiers (May 2009).
- Proton Award - Elected Best Lecturer Bachelor Chemistry (2010).
- Award for Excellence in Natural Gas Conversion (2013).
- ERC Advanced Grant (2013).
- Xingda Lectureship, Peking University, Beijing, China (2013).
- Max Plank-Institut für Kohlenforschung Centennial Lectureship (2014).
- Elected member of the European Academy of Sciences (2015).
- Plenary lecture at the 16th International Congress on Catalysis (ICC), Beijing, China, July 3-8, 2016 (~2500 attendants).
- Proton Award - Elected Best Lecturer Bachelor Chemistry (2016).
- François Gault Lectureship Award of the European Federation of Catalysis Societies (2017)
- Eminent Visitor Award of the Catalysis Society of South Africa (2017).
- Nominee Outstanding Teacher Award of Utrecht University (2017-2018)
- ~260 publications (Hirsch-index=66; >15,000 citations) and ~30 patents.
- 155 invited lectures, 18 keynote lectures and 26 plenary lectures (1997-2016).
- Supervisor of 55 PhD students (38 graduated) and 28 postdocs.

Utrecht, May 2018