

RESUME BERT MEIJER



PERSONAL INFORMATION

Name: Prof. dr. Egbert Willem "Bert" Meijer
Date of birth: April 22, 1955
Place of birth: Groningen, the Netherlands
Marital status: Married and two children
Nationality: Dutch
Address: Institute for Complex Molecular Systems
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EDUCATION

1967-1972 High School Appingedam
1972-1978 BSc and MSc in Organic Chemistry at University of Groningen
1978-1982 PhD degree in Organic Chemistry at University of Groningen.
advisor: prof. dr. Hans Wynberg

EXPERIENCE

1982-1989 Philips Research Laboratories Eindhoven
Research scientist Molecular Materials
1989-1992 DSM Research Geleen - Head of the Section "New Materials"
1991- Eindhoven University of Technology; Chemistry & Chemical Engineering
Full professor of Organic Chemistry
1994- Radboud University Nijmegen
Adjunct professor of Macromolecular Chemistry
2004 - Eindhoven University of Technology
Distinguished University Professor of Molecular Sciences
2006- University of California, Santa Barbara
Distinguished Visiting Professor
2008-2018 Eindhoven University of Technology
Scientific Director of the Institute for Complex Molecular Systems
2014- Royal Netherlands Academy of Arts and Sciences
Academy professor
2018- Max Planck Institute for Polymer Research, Mainz, Germany
External scientific member
2022- University of New South Wales (UNSW), Sydney, Australia
Visiting Professorial Fellow

RESEARCH INTERESTS

- Supramolecular polymers and their polymerization processes
- Adaptive electronic- and biomaterials based on supramolecular polymers
- Stereochemistry and chirality
- Non-covalent synthesis of functional supramolecular systems
- Synthesis of discrete and sequence-controlled polymers and oligomers

AWARDS

- Golden Medal of the Royal Dutch Chemical Society (1993)
- Arthur K. Doolittle Award of the ACS-division PMSE (1995)
- Silver Medal of the MacroGroup UK of the Royal Society of Chemistry (2000)
- SPINOZA-Award of the Dutch Science Foundation NWO (2001)
- ACS Award in Polymer Chemistry (2006)
- Best teacher of the year of the Eindhoven University of Technology (2009)
- ERC Advanced Research Grant (2010)
- AkzoNobel Science Award of the Royal Dutch Society of Science (2010)
- Wheland Medal of the University of Chicago (2011)
- International Award of the Society of Polymer Science, Japan (2011)
- Arthur C. Cope Scholar Award of the ACS (2012)
- International Solvay Chair in Chemistry of the Solvay Institute, Brussels (2013-2014)
- Prelog medal of the ETH Zurich (2014)
- Belgium Polymer Group Award (2014)
- Academy Professorship Award of the Royal Netherlands Academy of Science (2014)
- Doctorem Honoris Causa of the University of Mons, Belgium (2017)
- 32nd Nagoya Gold Medal Award in Organic Chemistry, Japan (2017)
- Humboldt Forschungs Preis of the Alexander von Humboldt Foundation, Germany (2017)
- ERC Advanced Research Grant (2018)
- 28th Chirality Medal of the Società Chimica Italiana, Princeton (2018)
- Doctorem Honoris Causa of the Free Universität Berlin (2019)
- ACS Global Outstanding Mentor Award in Polymer Science and Engineering (2020)
- Commander in the Order of the Netherlands Lion (2020)
- Van 't Hoff Medal of Society for the Advancement of Nature, Medicine and Surgery (2022)
- The Stephanie L Kwolek Award of the Royal Society of Chemistry for Teams (2022)
- Hermann Staudinger Preis of the Gesellschaft Deutscher Chemiker (2022)

HONORARY MEMBERSHIPS OF ACADEMIES AND SOCIETIES

- Member Royal Dutch Society of Science (KHMW) (since 1997)
- Member Royal Netherlands Academy of Science (KNAW) (since 2003)
- Member Deutsche Akademie der Technikwissenschaften (acatech) (since 2012)
- Member Academia Europaea (since 2012)
- Honorary Fellow Chemical Research Society of India (since 2012)
- Corresponding member of the Nordrhein-Westfälische Akademie der Wissenschaften und der Künste (since 2014)
- Fellow American Association for the Advancement of Science (AAAS) (since 2015)
- Fellow of Chemistry Europe (since 2016-2017)
- Fellow of the European Academy of Sciences (since 2018)
- Honorary Member Royal Netherlands Society of Chemistry (KNCV) (since 2018)
- Honorary Member of the Chemical Society of Israel (since 2018)
- International honorary member of American Academy of Arts and Sciences (since 2019)
- International member of the US National Academy of Sciences – NAS (since 2022)

VISITING PROFESSORSHIPS AND NAMED LECTURESHIPS

- Werner Kern Gedächtnisvorlesung, Mainz (1993)
- Visiting professor at the University of Leuven, Belgium, (1995)
- Novartis-Sandoz lecturer, Regensburg (1997)
- Wyeth-Ayerst lecturer, Columbus Ohio (1997/1998)
- Visiting professor at University of Illinois, Champaign-Urbana (1998)
- Bayer Distinguished lecturer, Cornell, New York (1998)
- Glaxo-Wellcome lecturer, Sheffield (1998)
- Molecular Design Institute lecturer, Georgia Tech, Atlanta (1999)
- Van 't Hoff Centennial lecturer, KNAW - Amsterdam (2001)
- Bayer Distinguished lecturer, Washington University, St. Louis (2002)
- Rohm & Haas lecturer, University of California, Berkeley (2002)
- Karl Pfister Lecturer, MIT - Boston (2003)
- Tarrant visiting professorship, Gainesville – Florida (2003)
- Paul Gassman visiting professorship 2003-2004, Minnesota (2004)
- Xerox Distinguished Lecturer of Canada, 2004 – Toronto and Montreal (2004)
- Gambrius-fellowship lectures - University of Dortmund (2004)
- Carothers Lecture - Dupont Wilmington (2005)
- Melville Lecturer - Cambridge University (2006)
- Visiting professor at University of Bordeaux, France (2007)
- FORTH Distinguished fellow of the FORTH Institute Crete, Greece (2008)
- Visiting professor Zhejiang University, Hangzhou, China (2008)
- Molecular Science Forum Lecture Professor, ICCAS, Beijing, China (2008)
- Milkovich Memorial lecturer at the University of Akron, USA (2009)
- Lowlands lecturer, the Netherlands (2009)
- Rudolf-Gompper Memorial lecturer at the KOPO 2009, Germany (2009)
- Musgrave Lecturer at University of Durham (2010)
- Reimar Lüst Lectureship of the Max Planck Gesellschaft, Mainz (2011)
- Groningen Stereochemistry Lecture 2011, University of Groningen (2011)
- Cornforth Lectureship at the University of Sydney, Australia (2011)
- Guthikonda Memorial Lecturer, Columbia University, New York (2011)
- Frontiers in Chemical Science Lecturer, Texas A&M University, USA (2011)
- Tony Cheetham Lecturer, University of California Santa Barbara, USA (2012)
- Chemical Record Lecturer of the Chemical Society of Japan, Tokyo (2012)
- 125th Anniversary of the Angewandte Chemie Lecturer, Berlin, Germany (2013)
- John Ferry Lecturer of the University of Madison, Wisconsin, USA (2013)
- Peter Timms Lecture, University of Bristol, UK (2015)
- Mordecai and Rivka Rubin Lecturer, Technion, Israel (2015)
- Zernike Chair at the Zernike Institute of the University of Groningen (2015)
- Aldrich Lectureship, Stanford University, USA (2015)
- Robert W. Taft Memorial Lectureship, University of California, Irvine (2015)
- Fralin-III Scholar Lecturer, Virginia Tech, USA (2015)
- Eastman Lecturer, UNC, Chapel Hill, USA (2016)
- Marker Lecturer for Chemistry, Penn State, USA (2016)
- Aggerwal Lecturer, Cornell University, USA (2016)
- ScotChem Lecturer, Scotland (2016)

- Visiting Professorship Materials in Mainz, Germany (2016-2018)
- Pettit Lecturer of the University of Texas, Austin, USA (2017)
- Humboldt visiting professor at the FU Berlin, Germany (2018-2024)
- 3M lecturer at the University of Illinois, Champaign-Urbana, USA (2018)
- Axalta Distinguished Lecturer of the University of Pennsylvania, USA (2019)
- Saul Winstein Lecturer at the University of California Los Angeles, USA (2019)
- Covestro lecturer at the University of Pittsburgh, USA (2019-2020)
- Robert Robinson Lecture of the University of Oxford. UK (2020-2023)

ACTIVE PROFESSIONAL MEMBERSHIPS AND EDITORIAL BOARDS

- Founding scientific director of the Institute for Complex Molecular Systems of the Eindhoven University of Technology (2008-2018)
- Founder of SyMO-Chem B.V. contract-research company - Eindhoven (2001)
- Co-founder of Suprapolix B.V.; polymer start-up company - Eindhoven (2005)
- Chairman of the International Scientific Advisory Board of Royal DSM (2006-2017)
- President of the Bürgenstock Conference in 2017
- Member Board of Trustees Leiden University, the Netherlands (since 2017)
- Scientific chair Gravitation program “Functional Molecular Systems” (since 2012)
- Editor of Journal of Polymer Science A, Polymer Chemistry (2005-2020)
- Vice-chair of the “Raad voor de Scheikunde en Natuurkunde” (2017-2019)
- Chairman of the Strategic Advisory Board – Research Field “Information” of the Helmholtz Association (since 2021)
- Member of the Permanent Committee Dutch Institutes - NWO-KNAW (since 2020)
- Member of the international advisory/editorial board of ~ 10 Journals
- Member of the Conference Evaluation Committee of the Gordon Research Conference Board (since 2021)
- Associate editor of the Journal of the American Chemical Society (since 2021)

SELECTED PUBLICATIONS

- J.F.G.A. Jansen, E.M.M. de Brabander-van den Berg, E.W. Meijer, *Encapsulation of guest molecules into a dendritic box*, **Science** 266, 1226 (1994)
- J.C.M. van Hest, D.A.P. Delnoye, M.W.P.L. Baars, M.H.P. van Genderen, E.W. Meijer, *Polystyrene dendrimer amphiphilic block-copolymers with a generation dependent aggregation*, **Science** 268, 1592-1595 (1995)
- R.P. Sijbesma, F.H. Beijer, L. Brunsveld, B.J.B. Folmer, J.H.K.K. Hirschberg, R.F.M. Lange, J.K.L. Lowe, E.W. Meijer, *Reversible polymers from self-complementary monomers using quadruple hydrogen bonding*, **Science** 278, 1601 (1997)
- J.H.K.K. Hirschberg, L. Brunsveld, A. Ramzi, J.A.J.M. Vekemans, R.P. Sijbesma, E.W. Meijer, *Helical self-assembled polymers from cooperative stacking of hydrogen-bonded pairs*, **Nature** 407, 167 (2000)
- P. Jonkheijm, P. van der Schoot, A.P.H.J. Schenning, E.W. Meijer, *Probing the solvent-assisted nucleation in chemical self-assembly*, **Science** 313, 80 (2006)
- T. Aida, E.W. Meijer, S.I. Stupp, *Functional Supramolecular Polymers*, **Science** 335, 813 (2012)
- P. Korevaar, S.J. George, A.J. Markvoort, M.M.J. Smulders, P.A.J. Hilbers, A.P.H.J. Schenning, T.F.A. de Greef, E.W. Meijer, *Pathway complexity in supramolecular polymerization processes*, **Nature** 481, 492 (2012).
- L. Albertazzi, F.J. Martinez-Veracoechea, C.M.A. Leenders, I.K. Voets, D. Frenkel and E.W. Meijer, *Spatiotemporal control and superspecificity in supramolecular polymers using multivalency*, **Proc. Natl. Acad. Sci. USA** 110, 12203-12208 (2013)

- B. van Genabeek, B.F.M. de Waal, M.M.J. Gosens, L.M. Pitet, A.R.A. Palmans, E.W. Meijer, *Synthesis and self-assembly of discrete dimethylsiloxane lactic acid diblock co-oligomers: The dononacontamer and its shorter homologues*, **J. Am. Chem. Soc.** 138, 4210-4218 (2016)
- B.N.S. Thota, X. Lou, D. Boichichio, T.F.E. Paffen, R.P.M. Lafleur, J.L.J. van Dongen, S. Ehrmann, R. Haag, G.M. Pavan, A.R.A. Palmans, E.W. Meijer. *Supramolecular Copolymerization as a Strategy to Control the Stability of Self-Assembled Nanofibers*. **Angew. Chem. Int. Ed.**, 57, 6843 (2018)
- N.J. Van Zee, B. Adelizzi, M.F.J. Mabesoone, X. Meng, A. Aloï, R.H. Zha, M. Lutz, I.A.W. Pilot, A.R.A. Palmans, E.W. Meijer, *Potential enthalpic energy of water in oils exploited to control supramolecular structure*, **Nature** 558, 100-103 (2018)
- B. van Genabeek, B. Lamers, B.F.M. de Waal, M. van Son, A.R.A. Palmans, E.W. Meijer, *Amplifying (im)perfection: The impact of crystallinity in discrete and disperse block co-oligomers*, **J. Am. Chem. Soc.** 139, 14869-14872 (2017)
- G. Vantomme, E.W. Meijer, *The construction of supramolecular systems*, **Science** 363, 1396-1397 (2019)

SELECTED PATENTS

- J.C. Hummelen, E.W. Meijer, H. Wynberg; *chemiluminescent labels for ELISA* (1983)
- E.M.M. de Brabander-van den Berg, E.W. Meijer; *The preparation of poly(propylene imine) dendrimers* (1993)
- R.P. Sijbesma, F.H. Beijer, L. Brunsveld, E.W. Meijer; *Supramolecular polymers based on quadruple hydrogen bonding units* (1997)
- H.M. Janssen, G.M.L. van Gemert, A.W. Bosman, E.W. Meijer; *Supramolecular polymers with quadruple hydrogen bonded units in the main chain* (2005)
- T.W. Baughman, G.M.L. Hoorne-van Gemert, H.M. Janssen, E.W. Meijer, A.W. Bosman; *Strong reversible hydrogels* (2008)
- P.Y.W. Dankers, G.M.L. van Gemert, H.M. Janssen, E.W. Meijer, A.W. Bosman; *Modular bioresorbable or biomedical, biologically active supramolecular materials* (2016)