

# RESUME BERT MEIJER



## PERSONAL INFORMATION

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Name: Prof. dr. Egbert Willem Meijer  
Date of birth: April 22, 1955  
Place of birth: Groningen, the Netherlands  
Marital status: Married and two children  
Nationality: Dutch  
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## EDUCATION

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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, *summa cum laude*; advisor: prof. dr. Hans Wynberg

## EXPERIENCE

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1982-1989 Philips Research Laboratories Eindhoven  
Research scientist Molecular Materials  
1989-1992 DSM Research Geleen - Head of department "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- External scientific member of the Max Planck Institute for Polymer  
Research, Mainz, Germany

## RESEARCH INTERESTS

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

## AWARDS

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- 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)
- 32<sup>nd</sup> 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)
- 28<sup>th</sup> Chirality Medal of the Società Chimica Italiana, Princeton (2018)

## VISITING PROFESSORSHIPS AND NAMED LECTURESHIPS

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- 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)
- The 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)
- Gambinus-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)

- The 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)
- The Tony Cheetham Lecturer, University of California Santa Barbara, USA (2012)
- The Chemical Record Lecturer of the Chemical Society of Japan, Tokyo (2012)
- 125<sup>th</sup> Anniversary of the Angewandte Chemie Lecturer, Berlin, Germany (2013)
- The John Ferry Lecturer of the University of Madison, Wisconsin, USA (2013)
- The 2015 Peter Timms Lecture, University of Bristol, UK (2015)
- The 2015 Mordecai and Rivka Rubin Lecturer, Technion, Israel (2015)
- The Zernike Chair at the Zernike Institute of the University of Groningen (2015)
- The Aldrich Lectureship, Stanford University, USA (2015)
- The Robert W. Taft Memorial Lectureship, University of California, Irvine (2015)
- The Fralin-MII Scholar Lecturer, Virginia Tech, USA (2015)
- The Eastman Lecturer, UNC, Chapel Hill, USA (2016)
- The Marker Lecturer for Chemistry, Penn State, USA (2016)
- The Aggerwal Lecturer, Cornell University, USA (2016)
- The 2016 ScotChem Lecturer, Scotland (2016)
- Visiting Professorship Materials in Mainz, Germany (2016-2018)
- The 2017 Pettit Lecturer of the University of Texas, Austin, USA (2017)
- Humboldt visiting professor at the FU Berlin, Germany (2018-2024)
- The 2018 3M lecturer of the University of Illinois, Champaign-Urbana, USA (2018)

#### ACTIVE PROFESSIONAL MEMBERSHIPS AND EDITORIAL BOARDS

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- Member Royal Netherlands Academy of Science (KNAW) (since 2003)
- Member Royal Dutch Society of Science (KHMW) (since 1997)
- Honorary Member Royal Netherlands Society of Chemistry (KNCV) (since 2018)
- Fellow American Association for the Advancement of Science (AAAS) (since 2015)
- Member Deutsche Akademie der Technikwissenschaften (acatech) (since 2012)
- Member Academia Europaea (since 2012)
- Fellow of the European Academy of Sciences (since 2018)
- Corresponding member of the Nordrhein-Westfälische Akademie der Wissenschaften und der Künste (since 2014)
- Honorary Fellow Chemical Research Society of India (since 2012)
- Honorary Member of the Chemical Society of Israel (since 2018)
- Scientific Director Institute for Complex Molecular Systems of the Eindhoven University of Technology (2008-2018)
- Founder of SyMO-Chem B.V. contract-research company - Eindhoven (since 2001)
- Co-founder of Suprapolix B.V.; polymer start-up company - Eindhoven (since 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 (since 2005)
- Vice-chair of the “Raad voor de Scheikunde en Natuurkunde” (since 2017)
- Member of the international advisory/editorial board of ~ 10 Journals, including:
  - Advanced Materials (since 1992)
  - Angewandte Chemie (1998 - 2018)
  - Chemical Science (since 2010)
  - Journal of the American Chemical Society (since 2010)

## SELECTED PUBLICATIONS

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- 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)
- 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, 2012, 335, 813
- 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 superselectivity in supramolecular polymers using multivalency*, PNAS, 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 dononacotamer and its shorter homologues*, J. Am. Chem. Soc. 138, 4210-4218 (2016)
- B.N.S. Thota, X. Lou, D. Bochicchio, 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. Filot, A.R.A. Palmans, E.W. Meijer, *Potential enthalpic energy of water in oils exploited to control supramolecular structure*, Nature 558, 100-103 (2018)

## SELECTED PATENTS

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- 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)