

Curriculum Vitae

- 1) Name Albert van den Berg
- 2) Present position Guest Professor at BIOS/Lab-on-a-Chip group
Quartermaster and Ambassador of Climate Centre at University of Twente
- 3) Employer University of Twente
P.O.Box 217, 7500 AE Enschede
- 4) Private address: Zuidkampweg 32, 7524 NC Enschede
- 5) Date of birth: 20/09/1957
- Email a.vandenberg@utwente.nl
- 6) Professional career **2024** - Emeritus Distinguished Professor at Bios /Lab on a Chip group
2023 - Quartermaster Climate Centre, University of Twente
2022 - Member of the Swiss Academy of Technical Sciences (SATW)
2018 - Visiting professor at EPFL Lausanne (CH)
2018 - **2024** Scientific (co)-Director of MESA+ Institute for Nanotechnology
2017 - Consultant Professor at NPU, Xian, China)
2014 - **2018** Scientific Director of MIRA – Institute for Biomedical Technology and Technical Medicine
2012 - Distinguished professor at South China Normal University, Guangzhou, China
2012 - Visiting professor at EPFL Lausanne (CH) (temporary)
2010 - Appointed as Honorary Professor at the University of Twente (one of two Honorary professors at the University)
2009 - Visiting Professor at the Wyss Institute at Harvard, Cambridge, USA.
2005 - Visiting Professor at LIAI, San Diego, USA.
2002 - Appointed as full professor of the Chair “Sensorsystems for biomedical and environmental applications” (Lab on a Chip group)
1998 - Appointed as full professor of the chair Miniaturized (Bio)Chemical Analysis Systems (Faculty Electrical Engineering)
1988 - Ph.D. degree in Technical Sciences at the same University, on a thesis entitled: “Ion Sensors Based on ISFETs with Synthetic Ionophores”
1983 - M.Sc. degree in Applied Physics at the University of Twente (Ir.)
- 7) Scientific prizes/honors **2023** - EIC Transition grant
2020 - 4th ERC Proof of Concept grant
2017 - Consultant Professor at Northwestern Polytechnic University in Xian (China)
2017 - co-PI of 10 yr. Zwaartekracht program Netherlands Organ on Chip Initiative (NOCI)
2016 - co-PI Max Planck Center Complex Fluid Dynamics Twente
2016 - 3rd ERC Proof of Concept grant
2015 - 2nd ERC Advanced Research Grant
2015 - Powerlist top 100 Analytical Chemists (The Analytical Scientist)
2013 - co-PI of 10 yr. Zwaartekracht program Multiscale Catalytic Energy Conversion (MCEC)
2013 - Powerlist top 100 Analytical Chemists (The Analytical Scientist)

2013 - 2nd ERC Proof of concept grant
2012 - Distinguished Professor at South China Normal University, Guangzhou, China
2011 – ERC Proof of Concept Grant
2010 – Honorary University Professor of University of Twente
2009 – Spinoza Prize (highest distinction in Dutch science)
2009 – NWO TOP grant
2008 – ERC Advanced Research grant
2007 – Top Institute Food and Nutrition publication Prize
2005 - Outstanding Speaker Award American Association of Clinical Chemists (AACC)
2004 – Kolthoff award for thesis of Ph.D candidate E.X. Vrouwe
2004 - Leverhulme Trust award for knowledge valorization “Lithium analyzer in whole blood”
2002 - Simon Stevin Master (highest distinction in Dutch engineering sciences) (STW)

8) Professional experience:

2017 Turbo grants program
 (Radboud UMC – UT)
2014-2017: Board **Pioneers in Healthcare** program
 (UT-MST-ZGT-RRD-Saxion-DZ-Menzis)
2008-2012: Flagshipcaptain of Nanofluidics program (15 MEuro) in NanoNext program.
2003-2008: Flagshipcaptain of Nanofluidics program (>15 MEuro) in Nanoned program
2002-date: Appointed as full professor in the chair "Sensor systems for biomedical and environmental applications"
1998-2002: Appointed as full professor “(Bio)Chemical Analysis Systems”
1998-2002 Program director at the MESA Research Institute of the University of Twente for the research orientation Micro Chemical Systems (MiCS)
1993-1998 Research coordinator at the MESA Research Institute of the University of Twente for the research orientation Micro Total Analysis Systems (μTAS).
1991-1993. Research scientist and project manager at the University of Neuchâtel (prof. N.F. de Rooij) and involved in the research and development on silicon-based electrochemical sensors and microsystems for chemical analysis.
1988-1990. Project leader at the Swiss Center of Microelectronics (CSEM). Responsible for several (bio)chemical sensor projects.

9) Memberships (selected)

- Chairman Nano4Society foundation (before: NanoNextNL)
- Co-founder of European Organ on Chip Society (EUROoCS)
- Programme chairman of the 2017 MicroNanoconference (Amsterdam, The Netherlands)
- Editor of Nature PG - “Nature Microsystems & Nanoengineering”
- Chairman section Technical Sciences of the KNAW (2017- 2023)
- Member of the Raad van Toezicht of MST hospital, Enschede.
- Member of the Netherlands Academy of Technology and Innovation (ACTI), 2016

- Co-chairman of the first International Organ On Chip Symposium (IOOCS) Enschede, The Netherlands.
- Board member of the Human Disease Model Technologies institute (HDMT), 2015-
- Advisory Board Medical Spectrum Twente (regional hospital), 2016-
- Co-Chairman of the Optofluidics Conference (Guangzhou (CN), 2014)
- Co-Chairman of the Flow14 International Conference (Enschede, 2014)
- Associate Editor LOC journal (2012-2015)
- Board member Royal Netherlands Academy of Sciences and Arts (KNAW) (2011-2016)
- Member of the “Koninklijke Hollandsche Maatschappij de Wetenschappen” (2012)
- Member of the Royal Netherlands Academy of Sciences (KNAW) (2008) *Section Engineering Sciences*
- Member of the TWINS council within KNAW (2008-2011)
- Fellow of the Royal Society of Chemistry (RSC) (2012)
- Member of Dutch National Health Council (2008)
- Deputy Chair *Lab on Chip* journal (2008-2012)
- Associate Editor *Biomedical Microdevices* (2011-)
- Editorial board *Sensors and Actuators B* (-2003)
- Editorial advisory board *Microfluidics and Nanofluidics*
- Founding Chairman of the microTAS conference series in 1994.
- Member/Secretary of the Chemical and Biological Microsystems Society (since 2003; secretary 2006-2009)
- International Steering Committee of Transducers conference 2003
- Scientific comm. of μ TAS '96, μ TAS '98, μ TAS '00, μ TAS '01 μ TAS '02
- Technical Programme Comm. MEMS 2000/2003, Transducers 2005/2007.
- Technical Programme Comm. Eurosensur XIII” and “Eurosensors XIV”
- Technical Programme Comm. ESSDERC 99”
- Chairman Gordon Research Conference on Microfluidics (2003)
- Advisory board Int. Micromachine Symposium series (1998-date)
- Scientific committee of the European Conference on Micro and Nanotechnologies for Life Sciences (NanoTech) (1999-date).
- Scientific Advisory Board Wyss Institute at Harvard (2010-)
- Scientific Advisory board ETH Basel (2010-)
- Scientific Advisory Board ISAS Dortmund (2007-)
- Scientific Advisor Vertex Pharmaceuticals (2004-2005)
- Scientific Advisor Medimate (2006-2014)
- Scientific Advisor Micronit BV (2010-)
- Scientific Advisor Sentron CMT BV (1998-2003)
- Member of the section Analytical Chemistry of Dutch chemical society
- Advisory Board Sensors and Actuators B journal (1993-2002)
- Editor μ TAS section Sensors and Actuators journal (1998-2002)
- Evaluation panel German Centers of Excellence (2006)
- Evaluation panel AERES for evaluating ESPCI in Paris (2008)

10) Scientific activities (selected)

- (Co)initiator and (co)chairman of μ TAS '94, the first international Workshop on Micro Total Analysis Systems.
- Chairman of μ TAS 2000 international conference
- Chairman of Gordon Conference “Chemistry and Physics of Microfluidics”, 2003 (Big Sky Resort, USA)
- Chairman 1st international conference on Nanofluidics (2006)
- Chairman World Micromachine Summit 2002
- Chairman of the 1998 Dutch Sensor conference.

- Co-Chairman of the International Flow14 conference, Enschede, The Netherlands
- Representative for Benelux at the World Micromachine Summit (1996-date)
- Guest editor of Sensors and Actuators B, Spec.Issue Eurosensors XII.
- Section editor “Micro Total Analysis Systems” in S&A B (until 2004)
- Invited author of “Opinion articles” in Lab On A Chip journal (2006-2007)
- Editor of different MESA Monographs/ μ TAS proceedings.
- Regular reviewer of manuscripts (e.g. Science, Nature, NanoLetters, Phys. Rev. Lett., APL, JMEMS, Anal. Chem., LOC etc)
- Supervisor of 70 PhD theses (finished), 5 ongoing.

11) Publications

- * Over 1000 peer-reviewed articles (H-index: 70 (WoS), H=98 (Google Scholar) (2024))
- * Several covers (PNAS, Lab on Chip, Small, etc)
- * Invited review article on “Labs on a Chip” in LOC journal at the occasion of the 10th μ TAS conference.
- * Editor of 4 books on Lab on a Chip
- * Several contributions to international textbooks and encyclopedia
- * >15 patents.
- * More than 300 lectures (almost all as keynote/invited speaker).
- * Numerous posters on international conferences and meetings.

12) Funding ID (past 10 y.)

Several 2nd and 3rd Budget Source project, approximately totaling > **30 MEuro** (2nd: app. 17 MEuro; 3rd: app. 10 MEuro) for example:

- co PI EU project DigiPredict	8,000 kEuro
- stichting de Weijerhorst	1,800 kEuro
- one of 6 PI's in NWO Zwaartekracht proposal (NOCI)	18,800 kEuro
- one of 6 PI's in NWO Zwaartekracht proposal (MCEC)	31,800 kEuro
- Achmea funded program on cancer research	1,100 kEuro
- 5 projects on Nanofluidics in Nanoned program	1,600 kEuro
- Nanonext program	1,600 kEuro
- various STW grants over past 10 years	4,500 kEuro
- Vlag project	300 kEuro
- various EU programs eg. Brainstorm/Theraedge	2,500 kEuro
- Cancer research grants	1,800 kEuro
- Avantium grant “Microreactors”	1,000 kEuro
- WCFS grant	250 kEuro
- 2 ERC advanced research grant	4,500 kEuro
- 4 ERC Proof of Concept grants	600 kEuro
- Spinoza Prize	2,500 kEuro
- Simon Stevin Prize	500 kEuro
- TOP grant (NWO)	500 kEuro

13) Spin off companies

Micronit (now > 110 p)
 Medimate
 Blue4Green
 MyLife Technologies
 Microdish
 LocSense
 Characell
 Sensair
 Biomarque
 Qurin Dx
 Semen Refinement