Personal Information:

Born: 12 May 1963 (Amsterdam)

Married, 3 grown-up children

Address: Asterkade 14, 2106BA Heemstede

Email: gert-jan.gruter@avantium.com

Education:

1985 – 1990 Chemistry, VU Amsterdam (major Organic Chemistry; minor Neutron Activation, UvA) 1990 – 1994 PhD Chemistry, VU Amsterdam

Professional Experience:

Avantium Holding BV, Amsterdam, NL

- Period: November 2004 now Position: Chief Technology Officer
- Period: August 2000 November 2004 Position: VP Technology
- Responsibility: Leadership of Avantium's technology development (long term strategy, execution) with focus on renewables. Intellectual property Member of management team

Eindhoven University of Technology

Extraordinary Professor Polymer Catalysis 1999-2006

DSM Research BV Position: Group Leader DSM Polyolefins Catalyst Development Period: March 1994 – August 2000

In October 2014, Gert-Jan was elected "European CTO of the year" (http://www.spinverse.com/cto-year-europe-2014-awarded/)

Nobel Peace Prize 1987 (United Nations Interim Force in Lebanon (UNIFIL))



May 2016

Exhibit 2008

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Some selected activities:

- (Co)author of 30 scientific papers (see Appendix).
- (Co)inventor on more than 200 patents and patent applications http://worldwide.espacenet.com/searchResults?submitted=true&locale=en_E P&DB=EPODOC&ST=advanced&TI=&AB=&PN=&AP=&PR=&PD=&PA=&IN=gruter&CPC=&IC (see Appendix for a selection).
- 10+ Years member of the VIRAN board (www.viran.eu), the Industrial advisory council of NIOK (www.NIOK.eu), the Netherlands Institute for Catalysis Research, currently in the role of treasurer.
- 5+ Years member of the platform APC, which is an industrial group of companies from the <u>Agro-food</u>, <u>Paper and Chemical industries</u>. 3+ Years member of core-team (http://www.dutchbiorefinerycluster.nl/over-dbc--apc/apc).
- 5+ Years member of the Innovation policy group of the VNCI (www.vnci.nl), The Association of the Dutch Chemical Industry (3rd in Europe with 60Bn€ turn-over (2012) and >1 Bn€ yearly R&D investment). The group reports to the VNCI board and advises on strategic direction.
- 3+ Years member of the TKI-NCI program committee (www.tki-nci.nl/bestuur+en+programmaraad). This committee decides on Dutch government subsidy spending (approx 20M€/yr) on innovative chemical research. The committee plays a prominent role in the creation, development and management of the TKI program. The committee has representatives from industry, research institutions and universities.
- Member of multidisciplinary strategy team advising Dutch government on R&D strategy in relation to **the circular economy**
- Frequently invited speaker at (international) conferences such as
 - o 04/14 Zoetermeer: American Institute of Chemical Engineers
 - 09/14 & 11/15 San Francisco: 5th & 6th Biobased Chemicals: Commercialization & Partnering Conference (https://www.gtcbio.com/conferences/biobased-chemicalscommercialization-partnering-speakers)
 - o 10/14 TU Delft: KIVI symposium 'Materials: re(d)use and construct'
 - o 11/14 Leiden: Congres Industrial Research: Past and Future
 - o 12/15 London: The 2015 European Biopolymer Summit
- Several company awards for YXY technology e.g.:

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- Amsterdam Invention of the year award (2010)
- o 2012-3 top 30 hottest companies in renewable chemicals Biofuels Digest
- 2013 Innovation in Bioplastics Award SPI Bioplastics Counsil (award lecture by GJ Gruter)
- Avantium is the only European company to have been in the top 10 European companies within the Global Cleantech 100 for the past six years
- European Cleantech company of the decade (2005-14) European Cleantech Forum.
- Member of various conference advisory boards e.g. ISHHC17. (http://www.ishhc17.org/advisoryboard.html)

APPENDIX. Publication list - List of (selected) patents

- Andreia F. Sousa, Carla Vilela, Ana Clotilde Fonseca, Marina Matos, Carmen S. R. Freire, Gert-Jan M. Gruter, Jorge Jordão Coelho, Armando J. D. Silvestre: *Biobased polyesters and other polymers from* 2,5-furandicarboxylic acid: A tribute to furan excellency. Polymer Chemistry 2015, 33(6), 5961-5983.
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- Ed de Jong, Thomas Vijlbrief, Rene Hijkoop, Gert-Jan M. Gruter, Jan C. van der Waal: Promising results with YXY Diesel components in an ESC test cycle using a PACCAR Diesel engine. Biomass and Bioenergy 2012, 36, 151-159.
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- Erik-Jan Ras, Sergio Maisuls, Paul Haesakkers, Gert-Jan M. Gruter, Gadi Rothenberg: *Selective Hydrogenation of 5-Ethoxymethylfurfural over Alumina-Supported Heterogeneous Catalysts*. Advanced Synthesis & Catalysis 2009, 351(18), 3175-3185.
- E. De Jong, G.-J. Gruter: *Furanics: A novel diesel fuel with superior characteristics*. SAE Technical Paper 2009-01-2767. 2009.

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G-J. Gruter, E. de Jong: *Furanics: Novel fuel options from carbohydrates*. Biofuels Technology 2009, 1, 11-17.

- Robbert Duchateau, Wouter J. van Meerendonk, Latifa Yajjou, Bastiaan B. P. Staal, Cor E. Koning, Gert-Jan M. Gruter: *Ester-Functionalized Polycarbonates Obtained by Copolymerization of Ester-Substituted Oxiranes and Carbon Dioxide: A MALDI-ToF-MS Analysis Study*. Macromolecules 2006, 39(23), 7900-7908.
- Edwin G. Ijpeij, Gert-Jan M. Gruter: 2-Lithioindenyllithium: An Easy Accessible Intermediate for the One-Pot Synthesis of Single- and Double-Functionalized 2-Indene Derivatives. Synthesis 2006, 1408-1414.
- Wouter J. van Meerendonk, Robbert Duchateau, Cor E. Koning, Gert-Jan M. Gruter: *Unexpected Side Reactions and Chain Transfer for Zinc-Catalyzed Copolymerization of Cyclohexene Oxide and Carbon Dioxide*. Macromolecules 2005, 38(17), 7306-7313.
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- Pieter Imhof, Ana S Dias, Ed De Jong, Gert-Jan M. Gruter: *Furanics: Versatile Molecules for Biofuels and Bulk Chemicals Applications*. 21 NAM, 2009, San Francisco. Nacatsoc Paper 2970.
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