5808 Bell Creek Road Deming, WA 98244 USA	Europa Allee 15 64625 Bensheim Germany	1-5-16-206 Festio, Nishi-ku, Fukuoka 819-0166 Japan

email: JvdHa@aol.com

Jozef C. van der Ha

Professional Experience

Aerospace Engineering Consultant

April 2011 – Present *Various Companies & Institutes*

Professor of Aerospace Engineering

April 2006 – Mar 2011 *Kyushu University, Fukuoka, Japan*

- Supervisor of 7 Doctor and 16 Master Students; Head of SSDL Laboratory
- Research in Interplanetary Mission Design, Small Satellite System Design, Attitude Determination and Control, Gravity Assist Anomaly, Thermal Radiation Effects on Deep-Space Satellites, Hayabusa Reentry
- Graduate Courses in: System Engineering, Mission and Satellite Design, Attitude Dynamics and Control, Small Satellites, Project Management

Aerospace Engineering Consultant

July 1999 – April 2006

- ADCS / System Engineer *Surrey Satellite Technology Ltd, UK*
- Design / Implementation of Guidance and Control for CONTOUR Mission *JHU / Applied Physics Lab., Laurel, MD, USA*
- Incidental Tasks, Activities, and Lectures *Various Institutes*

System Engineering Manager & Coordinator

Sept 1994 – June 1999 *European Space Agency / ESOC, Darmstadt, D*

- Coordination between ESA and National Ground Facilities / Laboratories
- Development of Effective Low-Cost Satellite System Engineering Concepts
- Small Satellites System Design and Implementation (PROBA, et al.)

Ground Segment and Operations Project Manager

Feb 1986 – Aug 1994 *European Space Agency / ESOC, Darmstadt, D*

- SOHO Mission Design and Implementation (1991 - 1994)
- HUYGENS Mission Design and Implementation (1990 - 1993)
- HIPPARCOS Mission Design, Implementation, Operations (1986 - 1991)

Senior Flight Dynamics Engineer

Oct 1980 – Jan 1986 *European Space Agency / ESOC, Darmstadt, D*

- HIPPARCOS AOCS and Payload Software Design & Implementation
- Orbit & Attitude Maneuver Support for ESA's Geostationary Satellites
- Attitude Determination and Maneuver Implementation for Orbit Injections of METEOSAT-2, MARECS-A/B, SIRIO-2, ECS-1/2/3, and GIOTTO

Mission Analyst

Oct 1977 – May 1980 *European Space Agency / ESOC, Darmstadt, D*

- Model for Precise Long-term Evolution of Geostationary Orbits
- Model for Relative Satellite Motion under Drag and Other Perturbations

Awards

John V. Breakwell Memorial Lecture 2014
65th International Astronautical Conference, Toronto, Canada (October 2014)

AIAA / AAS Certificate for Best Conference Paper
AAS / AIAA Astrodynamics Conference, Lake Tahoe, CA (August 2005)

ESA Douglas Marsh Fellowship
Study on Small Satellites at NASA / GSFC and JHU / APL, USA (1994/1995)

ESA Special Recognition Award
HIPPARCOS Recovery Mission Implementation (1990)

ESA Performance Awards
METEOSAT-2 (1981), SOHO (1996), and HIPPARCOS (1989) Missions

Additional Professional Activities

Director of Specialists Symposia for the International Astronautical Federation (IAF)

- Program Chair for International Symposium '***Novel Concepts for Smaller, Faster & Better Space Missions'***, Redondo Beach, CA (April 1999)
- Program and Organizing Chair for International Workshop '***Mission Design & Implementation of Satellite Constellations***', Toulouse, F (Nov. 1997)

Coordinator (7 Sessions) in IAF Astrodynamics Symposia (1991-1997)

Chairman of the IAF Astrodynamics Technical Committee (1994-1997)

Chairman & Member of Committees in Conferences and Symposia in Various Countries

Publications

Editor of Book of Proceedings "Mission Design & Implementation of Satellite Constellations", Kluwer Publisher, October 1998

Co-Author of "Reducing Space Mission Cost", Microcosm / Springer, 1996

Author / Co-Author of over 80 Journal Publications (1977 - present)

Author / Co-Author of over 120 Conference Publications (1976 - present)

Author of 140 Technical Reports for ESA, APL, SSTL, ZARM (1978 – 2006)

Education

Ph. D. in Mechanical Engineering (Thesis on Orbit Perturbations & Control)
June 1977 *University of British Columbia, Vancouver, BC, Canada*

Master in Applied Mathematics & Mechanics (Thesis on Optimal Orbit Control)
January 1973 *Technical University, Eindhoven, the Netherlands*

Bachelor *in Engineering Mathematics*
June 1970 *Technical University, Eindhoven, the Netherlands*

Languages

Dutch - *Mother Tongue*

English - Writing, Speaking, Reading, Hearing (Fluent)

German - Writing, Speaking, Reading, Hearing (Fluent)

French - Writing, Speaking, Reading, Hearing (almost Fluent)

Italian - Reading, Hearing (not Fluent)

Japanese - Limited