

CURRICULUM VITAE

Professor Dr.techn. HARALD A. ØYE

Born: Oslo, February 1, 1935.

Education:

- M.Sc.Eng. (Siv.ing.), The Norwegian Institute of Technology, Department of Chemistry, 1958. M.Sc. degree conferred with Magna cum Laude with report to His Majesty the King Olav V.
- Doctor of Technology, The Norwegian Institute of Technology, 1964.

Positions:

- Industrial worker Christiania Spigerverk 1953-1954.
- Research fellow, Institute of Inorganic Chemistry, The Norwegian Institute of Technology, 1958-1962.
- Post-doctorate fellow, Chem. Div., Argonne National Laboratory, IL, USA, 1963-1964.
- Associate professor, Institute of Inorganic Chemistry, The Norwegian Institute of Technology, 1965-1972.
- Professor and Head Institute of Inorganic Chemistry, The Norwegian Institute of Technology, 1973-1998.
- After merger Professor at Institute of Chemistry, later Department of Materials Science and Engineering, Norwegian University of Science and Technology, 1999- 2005
- Emeritus Professor 2005 -.
- Elected president of the Norwegian Academy of Technological Sciences, 1985-1992.
- Board member Council of Academies of Engineering and Technological Sciences (CAETS) 1990-1992.

Honors:

- Knight First Class of the Royal Norwegian Order of St. Olav, 1999.
- Honorary Fellow of The Norwegian Academy of Technological Sciences 1993
- Honorary professor of North-Eastern University, Shenyang, China, 1996
- The Research Council of Norway's 1997 Prize for Outstanding Research: Pioneering work in aluminium process research.
- The Norwegian Chemical Society Guldberg-Waage Medal, 1998.
- The Electrochemical Society (USA) Max Bredig Award for Molten Salt Research, 1998
- The Gunnerus Medal from The Royal Norwegian Society of Science and Letters: 2004
- TMS Light Metals Technology Award 2008
- Elkem Research Foundation Honorary Research Prize, 2014

Fellow of

The Royal Norwegian Society of Sciences and Letters.
 Norwegian Academy of Science and Letters.
 The Academy of Technological Science of Russia.
 La Academia Nacional de Ingeniera, Mexico.
 The Finnish Academy of Technology.
 Sächsische Akademie der Wissenschaften zu Leipzig.

- US National Research Council Senior Scientist Award, 1979-1981, 1986-198
- Head of Strong Point Center at The Norwegian Institute of Technology in Light Metals Technology 1991- 1996, 1997 -2001

Temporary international assignments:

- Guest scientist at Chem. Div., Argonne National Laboratory, Argonne, IL, May-Aug. 1967 and Aug.-Sept. 1977.
- Guest scientist at Technische Universität Clausthal, Lehrstuhl für Spezielle Anorganische Chemie, Germany, Aug. 1970 - Aug. 1971.
- Guest scientist at Institute. de Chimica Analitica, University de Bari, Italy, May-July 1975.
- Distinguished visiting professor at F.J. Seiler Research Laboratory, US Air Force Academy, Colorado, USA, Nov. 1979 - Jan. 1981, and Sept. 1, 1986 - Sept. 5, 1987.
- Brotherton distinguished visiting professor at The University of Leeds, Oct. 1985.
- Visiting professor Center for Applied Energy Research, University of Lexington, KY, USA, Jan. - April 1994.
- Visiting professor R and D Carbon, Sierre, Switzerland, April - May 1994.
- Visiting professor Institut des Systèmes Thermiques Industriels, University of Marseilles, France, July 1994.
- Visiting professor University of Auckland, Auckland, New Zealand, Oct. 1995.
- Visiting scientist MOLTECH, Geneve, Switzerland, Nov.-Dec. 1995
- Visiting professor Technical University of Denmark, Copenhagen, Denmark, Sept-Dec.2002.

Research Fields:

- Applied research on electro winning of aluminium and magnesium and production and refining of silicon. Materials science. Carbon technology.
- Fertilizer technology.
- Transport properties of hydrocarbon systems. Thermodynamic, transport properties and spectroscopy of molten salts and high temperature system.

Publications:

- More than 400 international publications. See separate list. Educated 38 Ph.D. candidates and numerous M.Sc. candidates

International activities:

- Initiator, director and lecturer of the yearly “International Course on Process Metallurgy of Aluminium” at the Norwegian University of Science and Technology, 1982 – 2014, (3000 participants from 51 countries last 32 years).
- Chairman of the semi-annual international conference: Silicon for the Chemical and Solar Industry, 1992, 1994, 1996, 1998, 2000, 2002, 2004, 2006, 2008, 2010, 2012. 2014 in different locations in Norway. (Totally about 1800 participants from 34 countries).

Recent international aluminium activities or courses:

Cathode Technology in Hall-Heroult Electrolysis: TMS, USA: San Francisco 1994, Anaheim 1996, San Diego 1998.

Aluminium smelting: Jawaharlal Nehru Aluminium Research Development and

Design Center, Nagpur, India, 1996, Aluminio y Derivados, Veracruz, Mexico, 1999 and 2001.

Aluminium Cathode Technology or/and Cell Autopsy: Luralco Alumax, Canada, 1995; Krasnoyarsk Smelter, Krasnoyarsk and/or Sajansk smelter, Sajanaosk Russia, 1992, 1995, 1998, 2002, 2005, 2006, 2007, 2009 2010, 2011, 2012, 2015. Venalum, Venezuela 1996 and 2004; Dubal, Dubai, 1997, 2013; Alusaf, Bayside, South Africa 1998, 2003 and 2004, Pinguo Smelter, China 2002, Alcoa, Brazil 2003 and 2004, University of Science and Technology, Department of Ecological Engineering, Beijing, China 2005, 2007, 2012; Egyptalum, Nag Hammady, Egypt 2006; Guizhou Aluminium, Guiyang, China 2007; Almadyn Aluminium, Bandar Abbas, Iran 2008; Iran University of Science and Technology, Teheran, Iran 2009; Trondheim Course for RUSAL Executives 2010; EMAL Abu Dhabi, U.A.E.; 2012; Trondheim Tuition for a RUSAL Chief Executive 2012; National High Technology Research and Development Program, China, to evaluate new Chinese Aluminium Technology, 2012.

Refining of Silicon:

Camargo Correa Metais, Tucuruí, Brazil, 1996; Chonbuk National University, Jeonju, Korea 2009

- Regularly invited to present lectures of Metallurgical Society of AIME (TMS) meetings (last 38 years), Gordon Conference on Molten Salts, EuChem Conference on Molten Salts, Electrochemical Society Meeting, Journées d'Etude sur les Sels Fondus.
- Appointed by The Royal Norwegian Ministerium of Foreign Affairs as specialist to Germany, Romania, Yugoslavia, Poland and Czechoslovakia for presenting lectures and discussion of research activities.
- Member of ISO/TC 47/(SC7 (Materials for the aluminium industry) and member of former IUPAC subcommittee on Transport Properties, now International Association for Transport Properties.
- Gives about 10- 20 international lectures or lecture series per year.
- Regular visitor and consultant to aluminium plants all over the world.

Evaluation work:

- International committee to evaluate inorganic chemistry and material science research in Sweden.
- The Royal Norwegian Council for Scientific and Industrial Research committee on process technology.
- External examiner University of Dar es Salam.
- Evaluation of promotion of professors at M.I.T. and University of Mississippi.
- Norwegian national committee to evaluate promotion of professors in chemistry.