

Curriculum Vitae

Fred Goldberg, Box 1210, SE-181 24 Lidingö, Sweden

Tel. +46 8 767 26 05, Fax +46 8 731 81 26, E-mail: Fred@materialdata.se

Born	1942 in Oslo, Norway
Nationality	Swedish
Languages	English, German, Swedish, Norwegian and some French
Education	<p>1963 Graduated from Norra Latinläroverket, (technical line).</p> <p>1963-1964 Military service in the Royal Swedish Navy. Trained as radio operator and served at the 1st Helicopter Division</p> <p>1965 Trained as helicopter mechanic at 1st Helicopter Division</p> <p>1966 member of the Stockholm University Svalbard Expedition as a technician and research assistant.</p> <p>1970 M.Sc. (Civilingenjör) at the Royal Institute of Technology, KTH Dept of Mechanical Engineering.</p> <p>1975 Dr. of Tech. at KTH, Dept of Welding Technology. Title of thesis: Metallurgical Effects of Thermal Cutting and their Influences on the Static and Dynamic Strength of Low-Carbon Structural Steels.</p> <p>1975- Assistant professor (docent) at the department of Welding Technology, KTH, Stockholm</p>
Welding career	<p>1969-1975 Research assistant and lecturer at the department of Welding Technology, KTH, Stockholm</p> <p>1969-1971 Part time development engineer at AGA AB, Lidingö. Developed among other things the HA 133 cutting nozzle still today being the standard cutting tip at AGA.</p> <p>1975 - Founder and managing director of Materialdata AB. Involved with development of cutting tips (Twin-Jet), non-contact 2-axis seam-tracking systems for welding (MWC), designed 1977 the first Scandinavian high-power laser system (3 kW) for Perma-scand AB to be used for cutting, welding and heat treatments.</p> <p>1978-1988 involved in marketing the use of laser systems for welding, cutting and heat treatments for Swedish industry.</p>

1981 Signed the first Swedish-Chinese joint venture agreement with the Qing-Hua University to develop a fully transistorised and adaptive controlled MIG/MAG welding power source. Project successfully completed 1983.

Guest Lecturer

Have been invited lecturer to the following universities:

1973 Bratislava University, professor Cabelka

1975 Technion, Haifa, Israel, Dr Shraga Yaron

1975- Royal Institute of Technology, lecturing each year for various courses at the department of Welding Technology.

1976 University of Wollongong, Australien

1979 Ohio State University, Columbus, Ohio, professor Macauley

1980 Imperial College of Science & Technology, London, professor W.H. Steen

1980 Osaka University, Osaka, Japan, professor Matsunawa

1981 Qing-Hua University, Beijing, professor Julian Pan

1981 China Metal Institute, Beijing

1983-1995 Föreläsningar vid Linköpings Tekniska Högskola om laserteknik, Lars Wennström m fl.

1983 Lunds Tekniska Högskola, professor Gunnar Kullberg

1991-1993 Mälardalens Högskola, Eskilstuna.

Have participated in some 50 conferences world wide with papers about thermal cutting, mechanized welding, laser processing and seam tracking systems.

Was invited lecturer to the 40th anniversary of the Norwegian Welding Society and presented the paper: "Mekaniserad Svetsning och dess Tillämpning inom Verkstadsindustrin"

Consultant work

List not complete

1968-9 Stockholms Hamn and the construction of the Lidingö bridge

1974 Karlskrona naval shipyard.

1974-1985 Broken Hill Pty Co Wollongong

1975 Uddevallavarvet Selection and design of equipment and production lines for the new shipyard.

1975 Oxelösund Steel Mill

1975 Gränges Hedlund AB, Welding of large beams

1976 Kaiser Steel, Ontario Calif,

1977-1987 Permascand AB, Ljungaverk, Design and installation of several high power laser work stations and process development.

1977-1978 Store Norske Spitsbergen Kulkompani, Longyearbyen

1978 SSAB, Luleå

1978 Algoma Steel, Canada

1979 Svedala-Arbrå
1979- Avesta Sandvik Tube Torshälla, Avesta and Storfors.
1985-1990 Tumba Bruk, Swedish production of paper money
1994 Studsvik Energiteknik
1995 Kvaerner Hydropower, Oslo
1995 Stockholm Energi AB
1998 Autoliv and Volvo Personvagnar
1999 Selmer Skanska A/S offshore pipelines
2001 Swedish Polar Research Secretariat
2002-2004 Swedish Foreign Ministry
2004- Store Norske Spitsbergen coal mining company

Organizations

Have been a member of the International Institute of Welding, (IIW), Comm. I since 1969 and Swedish delegate of Comm. IV 1980-1999.

Member of Svetskommissionen, Stockholm since 1969 and chairman of working group 42B Thermal cutting 1975-1979, WG 42E 1977- 1984 and chairman of WG 44 1989-1999.

Member of American Welding Society 1975 –

Publications

Have had 7 papers approved and published in the IIW peer-reviewed Journal Welding in the World. Have published some 50 papers around the world concerning mechanized welding, laser processes, seam tracking systems, thermal cutting processes, fatigue strength and wear alloys in 12 different languages.

Roald Amundsen – Expedition Mail, Letters, Postcards and Stamps. Published for the Fram-Museum in connection with an exhibit about Roald Amundsen Postal History made by me in 2000.

The Swedish Hut in Antarctica – Published by the Stockholm Building Society and the Swedish Polar Society 2001.

Drama in the Arctic – The search and rescue of Amundsen and Nobile. Published by the author 2003

Antarctic Mail – When Ships were made of Wood and Men of Steel. The book was written for the Swedish Foreign Ministry in connection with the Antarctic Treaty Conference June 2005.

Numerous articles about Polar history in Svalbardposten, philatelic magazines and other books and papers.

100 år I Arktis / 1906 Spitzbergen 2006. Book published by Posten Norge. FG responsible for the philatelic text throughout the book.

Other activities

1983 founded Swedish Polar Energy AB and Polargasintressenter AB which successfully drilled a gas exploration well on Svalbard 1986-1987. The latter introduced on the Swedish stock exchange.

1988 funded Hydropower International AB which is involved in developing the largest US hydroelectric project Mt Hope in New Jersey. A FERC license was received 1993. 1988 – 2004 director.

1993 founded Card Safety System AB for development of an electronic driving license and other traffic safety related systems.

Guest lecturer

Electronic Driving Licence

1993,1994 and 2004 Tylösandseminariet– Swedish National Traffic Safety Seminar

1995 2-day special conference concerning my electronic driving licence at Irvine, California organized by National Highway Traffic Safety Administration, USA.

1995 NHTSA-GM Traffic Safety Seminar, Cape Cod, USA
(one of 16 invited world experts on traffic safety)

1995 International Transportation Board, Berlin, Germany
(on request by the Swedish Transport Minister)

1995 International Counsel for Alcohol, Drugs and Traffic Safety (ICADTS), Adelaide Australia

1996 International Chief of Police Conference, Jacksonville Florida
(On request by NHTSA)

1997 ICADTS Annecy France

1997 US Board of Transportation conference Washington DC
(On request by NHTSA)

1998 Queensland Traffic Safety Conference, Brisbane, Australia

1998 Service to the Citizens conference, Denver CO, USA
(On request by Prof. Östberg, Statskontoret)

2000 ICADTS Stockholm, Sweden

2000 Traffic Safety Conference organized by UN and Volvo,
Tokyo, Japan

2003 AAMWA- American Association of Motor Vehicle Administrators national conference, Ottawa, Canada
(On request by NHTSA)

1999 founded Energibolaget I Sverige which is a power trading company taking advantage of the deregulated market in Sweden.

The company is in May 2006 the 5th largest energy company.
1999 – 2007 director

1966- Member of the Norwegian Polar Society
1967- Secretary of The Swedish Polar Society
1978- Member of Travellers Club, Stockholm. 1988 – director
1990- Fellow of Explorers Club, New York
1994-1999 Director of Cederroths listed on the Stockholm Stock exchange
2002-2006 Director of the Royal Swedish Automobile Club, Stockholm.

Awards

1995 European Commission IT-award (EuroCASE) for the electronic driving license.
1996 MHF Gold medal for traffic safety development work and campaign against drunk driving.
1999 Finalist for the World Technology Award for Transportation
2000 Travellers Club Honorary Silver Medal
2003 Special medal from the Swedish Embassy in Buenos Aires for promoting Swedish –Argentine scientific cooperation.

Exhibitions

Fred Goldberg interest in Polar research and history has produced the following polar exhibits primarily created from his own collections.

Royal Academy of Sciences – Polar history day September 1993

The Swedish South Pole Expedition 90 years – The Swedish Natural History Museum, Stockholm, 1993

The Andrée Polar Flight Expedition 100 years – The Postal Museum Stockholm 1997.

Svalbard Postal History 100 years - made for the Norwegian Post Office and exhibited in Longyearbyen Svalbard and at Svalbard Museum 1997.

The Andrée Balloon North Pole Expedition – UNIS University on Svalbard 1997.

Roald Amundsen – Expedition Mail, letters, postcards and stamps at the FRAM-Museum in Oslo 2000-2001. Also shown at the Polar Museum in Tromsø 2003-2004.

Roald Amundsen – The Polar Aviator at the FRAM-Museum in Oslo 2001. The exhibit was opened by the King Harald of Norway. Also shown at the Naval Museum in Horten Norway in 2003.

Drama – in the Ice. The Otto Nordenskjöld Antarctic Expedition 100 years. 2001-2002 at the National Maritime Museum in Stockholm.

The Postal History of the Nordenskjöld Antarctic Expedition 2002 at the Postal Museum.

The Otto Nordenskjöld Antarctic Expedition 100 years – In cooperation with the Argentine Antarctic Institute, Buenos Aires 2002. This exhibit also travelled to Misiones, Ushuaia and a few other places in Argentina.

Drama in the Arctic – SOS Italia – The Search and Rescue of Nobile and Amundsen – 2003 shown at the Swedish Air Force Museum, Linköping, The Norwegian Air and Space Museum, Bodö, the FRAM Museum in Oslo opened by the prime Minister Kjell-Magne Bondevik and in 2004 at the Vadsö Museum in Norway.

Photo Postcard exhibit: 100 years of Coal Mining in the Longyear Valley, Svalbard made for the Store Norske Spitsbergen Grubekompagni 2004.

Three exhibits for the Swedish Foreign Ministry in June 2005 in connection with Antarctic Treaty Consultative Meeting in Stockholm.

Film production

Fred Goldberg has since March 2003 every month produced a half hour TV program for the local cable network in Stockholm (TV-Sydväst) focusing on the nature and wildlife in the Polar areas and Polar History. He has also produced the following larger documentary films:

1982 30 min film on Swedish National TV from an expedition from Svalbard with the famous artist Gunnar Brusewitz.

1983 Two half hour programs with nature films from Antarctica shown on Swedish National TV. (The program received the highest viewer ratings recorded at SVT at that time)

1983 One half hour program about Svalbard on Swedish National TV.

Drama I Isen – The Otto Nordenskjöld Antarctic Expedition 100 years. Documentary 43 minutes

Drama in the Arctic – SOS Italia. 60 minutes of original films from 5 countries.

The Black Gold of Svalbard – 100 years of coalmining in Longyearbyen, produced for the Store Norske Spitsbergen Grubekompani AS 2005.

From Black to White – The modern production of coal at the Svea Mine, Svalbard., produced for the Store Norske Spitsbergen Grubekompani AS 2005.

More than a dozen cruise films from Antarctica and the Arctic between 1982 and 2004

Current activities

2004- Formed an informal network including professor Peter Stilbs, KTH and Wibjörn Karlén, Stockholm University studying and distributing information about climate change and global warming. Is today active with lectures, TV-debates and writing articles about climate issues.

Have since 1966 followed the climate research after having participated in the Stockholm University Svalbard Expedition with Prof. Valter Schytt and Prof. Gunnar Hoppe.

Was appointed Secretary General for an International Climate Seminar at the Royal Institute of Technology in Stockholm in September 2006.

Have since 2004 been studying climate change and has been a frequent lecturer on the topic “Climate change - Man made or natural” at Rotary Clubs, Universities and societies.

The Swedish Parliament 2006, Royal Institute of Technology, Stockholm 2006, California Institute of Technology, Pasadena 2007, CADIC University Ushuaia 2007, Linköpings University 2007, Travellers Club, Stockholm 2005 to mention a few. I do not consider myself a climate researcher but I have studied hundreds of documents and communicate with the leading scientists in the field. At my lectures I present my observations based on open data from the internet.

Cooperation with the Argentine Antarctic Institute concerning historic documentations in Antarctica.

4 book projects related to the Arctic and Antarctic history