

CURRICULUM VITAE

Lo Gunnar Otto Gorton

ADDRESS: Hantverkaregatan 14, SE-211 55 Malmö, Sweden

DATE OF BIRTH: 1949-07-29--0219, **PLACE OF BIRTH:** Stockholm, **CITIZENSHIP:** Swedish

ACADEMIC DEGREES: PhD 1981; Thesis: A Study of Modified Electrodes and Enzyme Reactors.

Docent (Associate Professor) 1986, Professor 1997.

POSITION: as Professor at Lund University (chair), Faculty of Natural Sciences, Department of Analytical Chemistry 1997-July 2016. Since Aug. 2016, Professor Emeritus

AWARDS. (1) in 2000, ISI "The most highly cited paper authored by a Swedish scientist in the field of Physical, Chemical and Earth Sciences between Jan 1995 and June 1999", (2) in 2000 "**Professor Honoris Causa of the University of Bucharest**", (3) the special issue of Bioelectrochemistry, 76(1-2), 2009, (Advanced Design of Electron-Transfer Pathways Across Biomolecular Interfaces) was dedicated to me on my 60th birthday. (4) in 2010 "**Visiting Honorary Professor**" at Xiangfan University, (5) "**Fellow of the International Society of Electrochemistry**", 2012, (6) **International DropSens Award** for "Best Research Work in Applied Electroanalytical Chemistry" 2012. (3000 Euro), (7) **Katzumi Niki Prize in Bioelectrochemistry** awarded by Division 2 (Bioelectrochemical division) of the International Society of Electrochemistry, 2013/2014 (1000 USD), (8) **EuCheMS DAC award** 2017.

ELECTED MEMBERSHIPS: (1) **Member of The Royal Physiographic Society in Lund** since 2002.

(2) **Member of The Royal Swedish Academy of Engineering Sciences (IVA)** since 2003.

(3) **Chair elect** (2007-2008), **Chair** (2009-2010), **Post Chair** (2011-2012) of the **Bioelectrochemical Division of the International Society of Electrochemistry (ISE)** 2007-2008. (4) **Member of the Bioelectrochemical Society (BES) Council** 2009-still.

RESEARCH STAYS. (1) **Guest researcher:** Dept. of Chemistry, University of Nebraska-Lincoln, Lincoln, NE 68588-0304 (USA), Prof. T. M. Cotton, 1989-03-13 - 1989-03-22. (2) **Guest researcher:** Materials Science Division, Dept. of Applied Science, Brookhaven National Laboratory, Upton, NY 11973 (USA), senior researcher Dr. T. Skotheim, 1989-03-28 - 1989-04-27. (3) **Guest Professor:** Dept. of Chemistry, University of Campinas (São Paulo State), Brazil, Profs. G. de Oliveira Neto, L. T. Kubota, 1996-09-25 - 1996-10-10. (4) Guest Professor, Dept. of Chemistry and Drug Technologies, Sapienza University of Rome, Italy, Prof. R. Antiochia, 2015-10-01 – 2015-12-31.

SCIENTIFIC PUBLICATIONS in international periodicals:

Full papers: published: 453 (116 invited), **Short communications:** published: 10 (3 invited), **Book chapters:** 12 (all invited), **Conference proceedings:** 33 (8 invited), **Meeting reports:** 1 invited, **Book Reviews:** 2 both invited, **Patents:** 4

Citations 25 Sep., 2017: 19358 (ISI)/25314 (Google Scholar), **H-index:** 73 (ISI)/85 (Google Scholar)

BOOK EDITING: "Biosensors and Modern Biospecific Analytical Techniques", Ed. Lo Gorton, Vol. XLIV, **Comprehensive Analytical Chemistry**, Ser. Ed. Damiá Barceló, Elsevier, Amsterdam, 2005.

"Electrochemical Processes in Biological Systems" Eds. Andrzej Lewenstam and Lo Gorton, **Wiley Series on Electrocatalysis and Electrochemistry**, Ser. Ed. Andrzej Wieckowski, Hoboken, NJ, 2015.

CONFERENCES: **Given lectures** at: 177 (137 invited), **Poster presentation** at: 88, **Attended:** 22 (with no presentation)

LECTURES AT OTHER OCCASIONS: 62

DOCTORAL STUDENTS (4 year study): main supervisor: 32 have been passed their PhD, currently supervising 1, **second supervisor:** 3 have passed their PhD.

POST DOCS - GUEST RESEARCHERS, ETC. in all 57 guest researchers have worked with me in Lund for more than 1 month

FACULTY EXAMINER, 26 occasions (2 in Sweden, 3 in India, 2 in Ethiopia, 1 in Spain, 5 in Romania, 2 on Ireland, 4 in Denmark, 1 in Austria, 1 New Zealand, 1 Portugal, 1 UK, 1 France, 2 Germany)

OTHER ACADEMIC ASSIGNMENTS, external examiner for a habilitation thesis in Germany, 1998, for lectureship in Umeå, Sweden, 1999, for professorship in Sweden, 2000, for full professorship in the UK, 2001, for readership in the UK, 2003, external examiner for two habilitation theses in Germany, 2006,

MEMBER OF COMMITTEE AT DISSERTATIONS, > 35 occasions

SCIENTIFIC BOARDS, 1 member of Chemistry Committee, Swedish Natural Science Research Council, Sweden (1992 - 1998)

2 Associate member of Commission V. 5 on Electroanalytical Chemistry of the International Union of Pure and Applied Chemistry (IUPAC) (1993 - 2003)

3 Member of the steering committee of the Analytical Division of the Swedish Chemical Society (1997 – still)

4 Member of the Editorial Board of *Biosensors & Bioelectronics* (1994 - 2006)

5 Member of the Editorial Advisory Board/Advisory Board of *Analytical Proceedings including Analytical Communications* (1994 - 1999), *The Analyst* (1995 - 2002), *Analytica Chimica Acta* (1997 - 2004), *Talanta* (1999 - 2001), *Current Analytical Chemistry* (2005 – still), *Electroanalysis* (2006 - still), *Journal of Pure and Applied Chemistry* (2006 - still), *Open Analytical Chemistry Journal* (2007 – still), *Advances in Analytical Chemistry* (2008 – still), *Bioelectrochemistry* (2005 - still), *ChemElectroChem* (2013 - still), *Current Opinion in Electrochemistry* (2016- still).

GRANTS: Own applicant: In all: > 30 MSEK (all from Swedish agencies)

Coapplicant: In all: > 48 MSEK (both Swedish, European, and other international agencies)

EU-projects: In all participated in 15 projects (INTAS, INCO-Copernicus, SMT4, S_JEP, MEST, BIO4, NMP4, ITN)

TEACHING EXPERIENCE, at all levels of analytical chemistry both at the faculty of science and technology, Lund University, also in inorganic chemistry, biochemistry, biotechnology-applied microbiology. Set up new courses for both undergraduate and doctoral students in analytical chemistry. Swedish contractor for Tempus project S_JEP-09227-95, master programme (Biosensors in Environmental Monitoring, University of Bucharest, Romania)

SCIENTIFIC INTERESTS: Bioelectrochemistry and spectroelectrochemistry especially the electrochemistry of NAD(P)⁺/NAD(P)H, mediated and direct electron transfer reactions between redox proteins/enzymes/whole living cells and electrodes, chemically modified electrodes, biofuel cells, biosensors and their use in flow analysis, nanostructured electrode materials. Immobilised enzymes, flow injection analysis, liquid chromatography, mass spectrometry, polysaccharide hydrolysing enzymes and their use for analysis and characterisation of derivatised cellulose, hemicellulose and starch. **Website:**

http://www.cmps.lu.se/biostruct/people/lo_gorton/