

Lena Treschow Torell

Biographic data

Lena Treschow Torell, professor at Chalmers University (on leave since 1998) and president since 2001 of the Royal Swedish Academy of Engineering Sciences (IVA).

Lena Treschow Torell is a professor in Physics. Appointed first for a chair in Solid State Physics at Uppsala University (1987) on low temperature physics, high temperature superconductors and metallic glasses. Later on she was appointed professor in Material Physics at Chalmers (1989). She developed a laser-based laboratory at Chalmers for research in soft condensed matter. In 1995-98 she served as vice president of Chalmers.

Lena Treschow Torell held a position (1998-2001) within the European Commission in Brussels as research director of the Joint Research Centre (JRC). She was in charge of the overall JRC research programme (annual budget of 250 M €) carried out by 8 institutes placed all over Europe. Main research areas and technology platforms of the JRC institutes covered safety of large constructions, nuclear safety issues and energy research, chemicals and food safety, and environmental issues especially air quality.

In 2001 she became president of the Royal Swedish Academy of Engineering Sciences (IVA), a position she still maintains. The IVA academy has the mission to “promote engineering and economic sciences and the development of industry for the benefit of society”. It is an independent organisation with some 1000 members linking decision makers from industry and the academic world with the public sector in projects, workshops and conferences in line with its mission.

Lena Treschow Torell is heavily engaged in industrial related research and technology development. She has served on the board of several industrial linked research institutes (SP, IFP, IMEGO, IRECO) and has been engaged in advisory committees for the energy sector (Vattenfall AB, Sydkraft AB). She is presently chairman for MISTRA (the foundation for Strategic Environmental Research) and chairman of Euro-CASE, the umbrella organisation for European Council of Applied Sciences and Engineering.

She has been board member of some notified companies, (Getinge AB, Telefonaktiebolaget L M Ericsson and Gambro AB). She is presently board member of Saab AB, SKF AB, Investor AB, Micronic Laser Systems AB, and ÅF AB. She is a member of the Globalisation Council of the Swedish Government. She has received the Seraphim Medal from H.M. the King Carl XVI Gustaf.

Lena M. TRESCHOW TORELL
Curriculum Vitae

BORN 1946

DEGREES

1966 Studentexamen at Burgårdens Läroverk
1969 B.Sc. at the University of Göteborg
1975 PhD at the University of Göteborg.
1980 "Docent" in Physics at Chalmers University of Technology (Göteborg)

EMPLOYMENT

1975-1987 Lecturer in Physics, Chalmers
1987-1989 Professor in Solid State Physics, University of Uppsala
1989-1998 Professor in Materials Physics, Chalmers
1995-1998 Vice President, Chalmers
1998-2001 Director, Joint Research Centre, European Commission (Brussels)
2001- President, Royal Swedish Academy of Engineering Sciences, (Stockholm)

RESEARCH ACTIVITIES

Specialisation Physics of disordered materials: glasses, polymers, solid state ionics.
Materials properties for energy storage, batteries and fuel cells. Materials modelling, neutron- and laser light spectroscopy.

Honours

1988 Albert Wallin Prize (for achievements in Solid State Physics)
2001 Foreign Member of Swedish Academy of Engineering Sciences in Finland
2002 Honorary Doctorate, Mälardalen University
2004 Chalmers Medal Award, Chalmers University
2005 Foreign Member of the National Academy of Engineering of Korea
2006 The Seraphim Medal from H.M. the King Carl XVI Gustaf.

Publications More than 120 papers in international scientific journals of high repute.

Theses 11 PhD theses have been completed under Torell's supervision and 10 Licentiate reports.

INTERNATIONAL EXPERT OPINIONS

Expert opinions for professorships in the USA (3), Japan (1), Europe outside Sweden (10); for lectureships, awards and larger research programmes in the USA (6), Australia (2), Europe outside Sweden (10). Opponent on thesis evaluations in Israel (1), Europe outside Sweden (2).

REFEREE: Physical Review/Physical Review Letters, Europhysics Letters, Physica Scripta
The Journal of Physical Chemistry, Chem. Physics, Electrochimica Acta, Solid State Ionics
J. Physics B and D; Appl. Physics
Journal of Physics; Condensed Matter

MEMBER OF VARIOUS INTERNATIONAL COMMITTEES

- 1988-90 Member of the Selection Board of Experiments at the Neutron Spallation Source ISIS, Rutherford-Appleton Laboratory, England
- 1990- Member of the International Advisory Committee for the following conference series
"International Meeting on Relaxations in Complex Systems",
"International Solid State Ionics Meeting"
"International Symposium on Polymer Electrolytes"
"International Workshop on Disordered Systems"
"European Physical Society Liquid Matter Conference".
- 1994-97 Member of the Science Working Group for the Scientific Case of the European Spallation Source (ESS), supported by European Commission and ESF.
- 1992-98 Member of the Advisory Editorial Board for The Journal of Non-Crystalline Solids

THE PERIOD 1998-2001

During the period 1998-2001 she was employed by the European Commission and as such not available for external engagement.

RECENT ENGAGEMENTS

in research evaluations;

- 2001 Member of the evaluation committee of the research programme of the Risoe Research Centre, Denmark
- 2003 Member of the evaluation committee of the Helmholtz Institutes, Germany
- 2005 Member of the evaluation committee of the research programme of the Risoe Research Centre, Denmark

in research organisations;

- 2002-04 Advisory Committee of Sydkraft AB
- 2001-06 Member of the Board of the Swedish Foundation for Strategic Environmental Research (MISTRA)
- 2001-06 Member of the Board of IMEGO, an institute for sensors systems development
- 2001-07 Member of the Board of IRECO, umbrella organisation for the institutes of the Swedish industry research system
- 2001-08 Member of the Board of the Research Foundation of Ångpanneföreningen
- 2008- Chairman of MISTRA, The Board of the Swedish Foundation for Strategic Environmental Research
- 2008- Chairman of Euro-CASE, the European Council of Applied sciences and Engineering

in industrial corporations;

- 2002-05 Member of the Board of Telefonaktiebolaget L M Ericsson
- 2003-06 Member of the Board of Gambro AB
- 2004- Member of the Board of Micronic Laser Systems AB
- 2005- Member of the Board of Saab AB
- 2006- Member of the Board of ÅF AB
- 2007- Member of the Board of SKF AB
- 2007- Member of the Board of Investor AB