

## Curriculum Vitae

### Personal data

Name: Tivadar LOHNER

Birth: November 22, 1947, Budapest, Hungary. Marital status: married, two children

Nationality: Hungarian, citizenship: Hungarian

**Address:** Institute of Technical Physics and Materials Science (MFA), Centre for Energy Research, Konkoly Thege M. út 29-33, H-1121 Budapest, Hungary

### Education

1967.9-1972.7

Faculty of Science, Roland Eötvös University, Budapest. Awarded the M. Sc. in physics.

1972.9-1975.6

Postgraduate study in physics, at Central Research Institute for Physics, Budapest. Awarded the university doctor's degree by Roland Eötvös University.

1996. Academic degree: "Candidate of Physical Sciences".

1997. Awarded the Ph.D. in physics by Roland Eötvös University.

2013. Academic degree: „Doctor of the Hungarian Academy of Sciences”.

### Work history

1975.7-1976.9

Research assistant at Central Research Institute for Physics, Budapest.

1976.10-1993.12

Research fellow at Central Research Institute for Physics, Budapest.

1993.12

Head of Ion Implantation Laboratory, Research Institute for Technical Physics and Materials Science of the Hungarian Academy of Sciences, Budapest.

1994.1

Senior research fellow at Research Institute for Technical Physics and Materials Science of the Hungarian Academy of Sciences, Budapest.

2004.1-2007.12

Head of the Laboratory for Nondestructive Analysis, Research Institute for Technical Physics and Materials Science of the Hungarian Academy of Sciences, Budapest.

2008.1 - 2011.12

Senior research fellow at Research Institute for Technical Physics and Materials Science of the Hungarian Academy of Sciences, Budapest.

Participation in domestic and international research projects financed by the Hungarian Scientific Research Fund and by the European Community.

Joint research work with a German research group (Lehrstuhl für Elektronische Bauelemente der Friedrich-Alexander Universität Erlangen-Nürnberg, Germany, the project was supported by the Volkswagen - Foundation, 1997.1-1998.12).

Participation in the European Integrated Activity of Excellence and Networking for Nano and Micro-Electronics Analysis European Commission through contract No. 026134(RII3)ANNA, <http://fcs.itc.it/anna/> (2007-2010)

2012.1 – 2013.31.

Senior research fellow at Research Centre for Natural Sciences, Institute for Technical Physics and Materials Science, Hungarian Academy of Sciences, Budapest, Hungary (after the reorganisation of the institutes of the Hungarian Academy of Sciences)

2014.1 – 2014.31.

Scientific advisor at Research Centre for Natural Sciences, Institute for Technical Physics and Materials Science, Hungarian Academy of Sciences, Budapest, Hungary.

2015.1 –

Scientific advisor at the Institute of Technical Physics and Materials Science (MFA), Centre for Energy Research, Hungarian Academy of Sciences, Budapest, Hungary (after merging MFA into the Centre of Energy Research).

### **Scientific experience abroad**

1987.11	1 month scholarship at Twente Technical University, The Netherlands
1988.7 – 1989.1	IREX fellowship at Pennsylvania State University, USA
1991.3 – 1991.8	visiting professorship at Osaka University, Japan
1998.5	1 month, Fraunhofer Inst. für Integrierte Schaltungen, Erlangen, Germany, participation in a joint project
2002.12 – 2003.5	visiting professorship at Osaka University, Japan
2004.6 – 2004.11	visiting professorship at Osaka University, Japan
2006.3 – 2006.7	visiting professorship at Osaka University, Japan
2009.7 – 2009.9	visiting researcher at Osaka University, Japan
2010.12 - 2011.2	visiting professorship at Osaka University, Japan
2013.11 - 2013.12	visiting professorship at Osaka University, Japan

### **Research field, main research topics**

Thin films, spectroscopic ellipsometry, ion beam analysis, ion beam modification of materials

### **Publications**

Published together with coauthors more than 220 papers in international scientific journals and conference proceedings, and 2 book chapters. The mentioned papers received about 1500 independent citations.

### **Honors and Awards**

- 1984 Honor of the Hungarian Academy of Sciences (divided)
- 1996 Szigeti György honor of the Roland Eötvös Physical Society
- 2015 Medal of the Roland Eötvös Physical Society

## **Memberships**

Roland Eötvös Physical Society, Division of Vacuum Physics, Hungary  
IUVSTA Hungarian National Committee  
Böhmische Physical Society (USA)

## **Miscellaneous**

Member of the Organizing Committee, Int. Conf. on Ion Beam Modification of Materials, Budapest, Hungary, September 4-8, 1978.

Member of the Organizing Committee, 11th Int. Conf. on Ion Beam Analysis, Balatonfüred, Hungary, July 5-9, 1993.

Member of the Int. Advisory Committee, 2nd Int. Conf. Spectroscopic Ellipsometry, Charleston, South Carolina, USA, 12-15 May 1997.

Member of the Int. Programme Committee, 8<sup>th</sup> Joint Vacuum Conf., 4-9 June 2000, Pula, Croatia.

Member of the Program Committee, 13th Int. Conference on Ion Implantation Technology, Alpbach (Tyrol, Austria), September 17-22, 2000.

Member of the Int. Programme Committee, 9<sup>th</sup> Joint Vacuum Conference, June 16 - 20, 2002 Schloss Seggau by Graz, Austria.

Member of the Int. Advisory Committee, 3rd Int. Conf. Spectroscopic Ellipsometry, July 6-11, 2003 Vienna, Austria.

Member of the Scientific Committee, European Materials Research Society 2005 Symposium P: Current Trends in Optical and X-Ray Metrology of Advanced Materials for Nanoscale Devices, May 31-June 3, 2005, Strasbourg, France.

Member of the Local Organizing Committee, 12th Joint Vacuum Conference, 10th European Vacuum Conference, 7th Annual Meeting of German Vacuum Society, JVC-12/EVC-10/AMDVG-7, (JVC-EVC-AMDVG), September 22-26, 2008, Balatonalmádi, Hungary.

Member of the Program Committee, 6th Int. Conf. Spectroscopic Ellipsometry, May 26-31, 2013, Kyoto, Japan.

## **Reviewing activity**

Applied Optics, Applied Physics Letters, Applied Surface Science, Journal of Alloys and Compounds, Materials Chemistry and Physics, Nuclear Instruments and Methods in Physics Research B, Philosophical Magazine, Thin Solid Films, Vacuum