

## **PORTRAIT of Isabella Gallino, Ph.D.**

### **Degrees**

- § Ph.D., Oregon State University, Corvallis OR USA (2003)  
Thesis (Materials Science): *Phase Diagram, Thermal Stability, and High Temperature Oxidation of the Ternary Cu-Fe-Ni System*
- § Laurea in Chemistry, University of Turin, Italy (1997)  
Thesis (Solid State Chemistry): *Solid State Reactions in Al/Ni Alternate Foils Induced by Cold Rolling and Annealing*

### **Professional experience**

- § Lecturer/Senior Researcher, Saarland University Germany (September 2005-present)
- § Assistant Professor, Oregon State University USA (2003-2005)
- § Visiting Researcher, University of Dortmund Germany (Summer 2004)
- § Researcher, The Netherlands Institute for Metals Research (NIMR), Delft-NL (1998-'99)

### **Professional activities**

Thermodynamics and kinetics of phase transformation, corrosion, and interface reactions of metallic glasses and alloys.

### **Teaching experience (since 2002)**

*Corrosion and Oxidation of Metals; Introduction to Materials Science; Rate processes in Materials; Thermodynamics of Materials; Fracture of Materials*

### **Publications**

- § S. Wei, I. Gallino, R. Busch, and C. A. Angell, 'Glass transition with decreasing correlation length during cooling of Fe<sub>50</sub>Co<sub>50</sub> superlattice and strong liquids', **Nature Physics** (28 Nov 2010) | doi: 10.1038/NPHYS1823
- § S. L. Philo, J. Heinrich, I. Gallino, R. Busch, and J. J. Kruzic, 'Fracture and fatigue behavior of a Zr<sub>58.5</sub>Cu<sub>15.6</sub>Ni<sub>12.8</sub>Al<sub>10.3</sub>Nb<sub>2.8</sub> bulk metallic glass forming alloy', **Scripta Materialia** 64 (2011) 359-362
- § I. Gallino, J. Schroers, and R. Busch, 'Kinetics and thermodynamics studies of the fragility of bulk metallic glass forming liquids', **Journal of Applied Physics** 108(6) (2010) Article Number: 063501
- § Z. Evenson, S. Raedersdorf, I. Gallino and R. Busch, 'Equilibrium Viscosity of Zr-Cu-Ni-Al-Nb Bulk Metallic Glasses', **Scripta Materialia** 63(6) (2010) 573-576
- § Z. Evenson, I. Gallino, and R. Busch, 'The effect of cooling rates on the apparent fragility of Zr-based bulk metallic glasses', **Journal of Applied Physics** 107(12) (2010) Article Number: 123529
- § I. Gallino and R. Busch, Metallurgy beyond Fe', **Publications of the Astronomical Society of Australia** 26(3) (2009) III-VII
- § I. Gallino, S. Curitto, M. Baricco, R. Busch, and M.E. Kassner, Homogenization of Highly Alloyed Cu-Fe-Ni: a Phase Diagram Study, **J. Phase Equilibria And Diffusion** 29(2) (2008) 131-135
- § I. Gallino, M. Shah, and R. Busch, Enthalpy Relaxation and its Relation to the Thermodynamics and Crystallization of the Zr<sub>58.5</sub>Cu<sub>15.6</sub>Ni<sub>12.8</sub>Al<sub>10.3</sub>Nb<sub>2.8</sub> Bulk Metallic Glass-Forming Alloy, **Acta Materialia** 55(4) (2007) 1367-1376
- § I. Gallino, R. Busch, H. Choi Yim, L. Jastrow, and U. Köster, High Temperature Oxidation of the Refractory Alloy Glass Nb<sub>35</sub>Ni<sub>60</sub>Sn<sub>5</sub>, **J. Alloys and Compounds** 434-435 (2007) 225-228
- § D. Zander, B. Heisterkamp, and I. Gallino, Corrosion Resistance of Cu-Zr-Al-Y and Zr-Cu-Ni-Al-Nb Bulk Metallic Glasses, **J. of Alloys and Compounds** 434-435 (2007) 234-236
- § I. Gallino, M. Shah, and R. Busch, Enthalpy Relaxation of the Zr<sub>58.5</sub>Cu<sub>15.6</sub>Ni<sub>12.8</sub>Al<sub>10.3</sub>Nb<sub>2.8</sub> Bulk Metallic Glass Forming Alloy, **J. of Alloys and Compounds** 434-435 (2007) 141-144
- § L. Battezzati, P. Pappalepore, F. Durbiano, and I. Gallino, Solid State Reactions in Al/Ni Alternate Foils Induced by Cold Rolling and Annealing, **Acta Materialia** 47(6) (1999) 1901-1914