

## **J. Georg Bednorz**

Dr. sc. nat., Dr. h.c. mult.  
IBM Fellow Emeritus

J. Georg Bednorz was born in Neuenkirchen, NRW Germany. In 1968 he joined the University of Muenster. During his time as an undergraduate he spent several months in 1972 and 1973 as a summer student at the IBM Zurich Research Laboratory, Switzerland, where in 1974 he also started with the experimental part of his master's thesis. After completing his thesis in Germany he obtained his degree in Mineralogy/Crystallography from the University of Munster in 1976. He returned to Zurich in 1977 to start his Ph.D. work at the Solid State Physics Lab at the Swiss Federal Institute of Technology (ETH). After his Ph.D. he joined the IBM Zurich Research Laboratory in 1982 as a research staff member with the task to work on the synthesis and characterization of new oxide materials. From 1983 he focused on conducting oxides to search for superconductivity at temperatures possibly beyond known limits. In 1986 this work resulted in the discovery of high temperature superconductivity in layered copper oxide compounds at unexpected high temperatures. This work, which he performed in collaboration with his colleague K. Alex Müller was highly recognized, and both were awarded

### **The Nobel Prize in Physics in 1987**

for the discovery of high-T<sub>c</sub> superconductivity in a new class of compounds

In the following Dr. Bednorz received numerous

### **Prizes and Honors**

#### **Distinguished Order of Merit with Star and Shoulder Band of the German Federal Republic**

Marcel-Benoist-Prize, Switzerland

13th Fritz London Memorial Award, University of California, Los Angeles

Dannie Heinemann Prize, Academy of Sciences, Göttingen, Germany

Robert Wichard-Pohl Prize, German Physical Society

Viktor Moritz Goldschmidt Prize, German Mineralogical Society

Otto-Klung Prize, Free University, Berlin, Germany

The Ross Coffin Purdy Award, American Ceramic Society

Hewlett-Packard Europhysics Prize

APS International Prize for New Materials Research, American Physical Society

Minnie Rosen Award, Ross University, New York

Distinguished Member of the Academy of Ceramics

Aldo Villa Prize, Italian Ceramic Society

Fellow of the American Physical Society

Foreign Associate of the U.S. National Academy of Sciences

Honorary Member of the American Ceramic Society

Honorary Member of the Swiss Physical Society

Honorary Fellow of the Fudan University, Shanghai, China

Honorary Fellow of the Institute of Physics, Singapore

#### **Dr. honoris causa,**

University of Regensburg, Germany

University of Salzburg, Austria

#### **University of Silesia, Katowice, Poland**

University of Tbilisi, Georgia

University of Münster, Germany