

## **Branko Ruscic: CV**

### **Personalia**

*Name:* **Branko Ruscic**  
*Born:* 1952 in Rijeka, Croatia  
*Marital status:* married, one daughter

### **Current Affiliations**

Senior Scientist Chemical Sciences and Engineering Division,  
Argonne National Laboratory, Argonne, IL, USA  
Senior Fellow Computation Institute, University of Chicago, Chicago, IL, USA

### **Professional Preparation**

Undergraduate Institution: B.Sc. (*dipl. eng.*) in Chemistry, 1975  
School of Natural Sciences and Mathematics  
University of Zagreb, Zagreb, Croatia  
Graduate Institution: Ph.D. (*dr. rer. nat.*) in Physical Chemistry, 1979  
University of Zagreb, Zagreb, Croatia  
Postdoctoral Institution: 1981-1983  
Physics Division  
Argonne National Laboratory, Argonne, IL, USA

### **Appointments**

2006 - present *Senior Fellow*, Computation Institute, University of Chicago, Chicago, IL, USA  
2007 - present *Senior Scientist*, Chemical Sciences and Engineering Division,  
Argonne National Laboratory, Argonne, IL, USA  
2003 - 2007 *Senior Scientist*, Chemistry Division,  
Argonne National Laboratory, Argonne, IL, USA  
1988 - 2003 *Scientist*, Chemistry Division, Argonne National Laboratory, Argonne, IL, USA  
1985 - 1987 *Visiting Scientist* (3 mo/yr), Chemistry Division ('87) and Physics Division ('85,  
'86), Argonne National Laboratory, Argonne, IL, USA  
1983 - 1988 *Scientist*, Physical Chemistry Department,  
Rugjer Boskovic Institute, Zagreb, Croatia  
1981 - 1983 *Postdoctoral Appointee*, Physics Division,  
Argonne National Laboratory, Argonne, IL, USA  
1980 - 1981 *Research Associate*, Physical Chemistry Department,  
Rugjer Boskovic Institute, Zagreb, Croatia  
1973 - 1979 *Research Assistant*, Physical Chemistry Department,  
Rugjer Boskovic Institute, Zagreb, Croatia

## Areas of Research and Expertise

Study of radicals and other transient species by photoionization mass spectrometry, photoelectron spectroscopy, and related experimental techniques, using conventional laboratory light sources, lasers, and synchrotrons; application of theoretical methods to thermochemistry and spectroscopy; development and application of thermochemical networks to derive accurate thermochemistry, development of the concept of Active Tables that treats and analyses data with massive, plural, and possibly incongruent interdependencies, practical implementation of the Active Tables approach to thermochemistry as [Active Thermochemical Tables](http://ATcT.anl.gov) (see <http://ATcT.anl.gov>), and development of the Core Thermochemical Network database.

## Major Current and Recent Research Activities

- PI, Thermochemical Investigations, Chemical Dynamics in Gas Phase Program, Chemistry Division, Argonne National Laboratory (2002-present)
- Co-PI and Argonne POC, Collaboratory for Multi-scale Chemical Science (US DOE SciDAC Nat'l. Collaboratory) (2001-2006)
- PI, Photoionization-Photoelectron Research, Chemistry Division, Argonne National Laboratory (1988-2001)

## Current International and National Committees

- Chair, IUPAC Task Group on Thermodynamic Properties of Free Radicals and Critical Intermediates (Chair since 2004, member since 2001)
- Consulting Fellow, World Innovation Foundation
- Member, Chemical Dynamics Beamline Participating Research Team, Advanced Light Source, Lawrence Berkeley Laboratory

## Honors and Awards

Various, including:

- University of Chicago Distinguished Performance Award (2006)
- Sandia National Laboratories Meritorious Achievement Award (2005)
- Argonne National Laboratory Pacesetter Award (2003)
- Fellow, World Innovation Foundation (elected in 2002)
- Acclaimed as one of the top cited Croatian-born scientists, 1993-present
- Chancellor (1984-1986) and Board Member (1986-1988), Croatian Chemical Society
- Federal Young Scientist Award of Former Yugoslavia (1978) (*an annual award bestowed on the most promising young scientist in the country*)
- Krka Award (1978) (*an annual award conferred to a young scientist for outstanding scientific research, sponsored by the pharmaceutical company "Krka," Novo Mesto, Slovenia*)
- University of Zagreb Rector's Award (1972) (*an annual award bestowed by the Rector of the U. of Zagreb on the best student*)
- *Listed in:* "Marquis Who's Who in Science and Engineering", "Marquis Who's Who in the World", "Marquis Who's Who in America", "Who's Who in Croatia", "100 (Past and Present) Chemists of Croatia", "2000 Outstanding Scientists of the 21st Century", "Dictionary of International Biography"

## Varia

- >120 papers in open literature, 1 patent (<http://atct.anl.gov/~ruscic/publist.html>)
- H-index: 38; 4150 citations (ISI, April 2011)
- [Erdős number](#): 3