Previous Ferenc Török Memorial Lectures presented at the Institute of Chemistry, Eötvös University, Budapest, Hungary

2000	Péter Pulay
2001	Jonathan Tennyson
2002	Tucker Carrington Jr.
2003	Petr Čarsky
2004	Brian T. Sutcliffe
2005	Jean Demaison
2007	Josef Michl
2008	Peter R. Schreiner

- 2009 Vladimir Tyuterev
- 2010 Markku Räsänen
- 2011 Wesley D. Allen



# 12TH ANNUAL FERENC TÖRÖK MEMORIAL LECTURE

Thursday, May 21, 2015 3:00 pm, auditorium 062, Institute of Chemistry Eötvös University, Budapest, Pázmány sétány 1/A

## **Bill Poirier**

**"Large Scale Exact Quantum Dynamics Computations:** 

**One Hundred Thousand Quantum States of Benzene**"

Presented by the MTA-ELTE Complex Chemical Systems Research Group Eötvös University, Budapest

### FERENC TÖRÖK (1929 – 1981)

Ferenc Török was born in Pécs, Hungary in 1929. He started his university studies in 1947 in the Department of Chemistry of the Eötvös University and received his M. S. degree in 1952. In the same year he became the co-worker of Professor Béla Lengyel at the Department of General and Inorganic Chemistry of the same institute. Ferenc Török received his first higher degree in chemistry (Candidate of Chemical Sciences) in 1960. He was member of the Inorganic Chemistry Research Group of the Hungarian Academy of Sciences from 1962, and later became the leader of its theoretical chemistry division. He received another M.S. degree in 1967, this time in applied mathematics. He received his second higher degree in chemistry (Doctor of Chemical Sciences) in 1970 and became professor of chemistry at the Department of General and Inorganic Chemistry of Eötvös University in 1971.

Ferenc Török made important contributions to several fields of chemistry: organosilicon chemistry, vibrational (infrared and Raman) spectroscopy, polymer sciences, and, most importantly, molecular quantum chemistry.

Ferenc Török was a generous, mild-mannered person whose profound ideas and suggestions became cornerstones for several scientific inquiries. Many of his students owe much of their professional careers to his guidance. Perhaps the most unique achievement of Professor Török was the creation of a Hungarian school of modern structural chemistry, with a special blend of quantum chemistry and spectroscopy, a truly revolutionary idea in the early 1960's.

Beside research, Professor Török laid great emphasis on teaching, as well. He contributed significantly to the reform of high-school chemistry teaching in Hungary. He co-authored, with Professor Ede Kapuy, a book entitled Electronic Structure of Atoms and Molecules, still perhaps the best Hungarian textbook on quantum chemistry.

The establishment of the Török lecture series in quantum chemistry at his home institution recognizes the contributions and legacy of this remarkable scientist.

#### LIONEL WILLIAM (BILL) POIRIER

#### **EDUCATION:**

<u>University of California Berkeley</u> — Ph.D. in Theoretical Chemical Physics	Fall	1997
Research Advisor: Professor William H. Miller (Chemistry)		
Advisor of Record: Professor Robert G. Littlejohn (Physics)		
Dissertation Topic: Optimal Separable Bases and Molecular Collisions		
University of Maryland College Park — Advanced Special Student in Physics		
Research Advisor: Professor Douglas G. Currie (Physics/Astronomy)		
Research Project: Chaotic Model of the Solar "Attractor"		
Dates of Attendance: (graduate physics classes) September 1989 to	May	1990
Brown University — Sc.B. in Physics with Honors, magna cum laude	May	1988
Research Advisor: Professor James C. Baird (Physics/Chemistry)		
Thesis Topic: Fractal Dimension: A New Information-Theoretic Derivation		
A.B. in Mathematics (fulfilled course requirements)		
EMPLOYMENT HISTORY:		

Professor— Department of Chemistry and Biochemistry, Texas Tech University (Graduate Faculty Member, Joint Professor of Physics) from September 2009 Graduate Program Director - Department of Chemistry and Biochemistry, TTU from September 2007 Associate Professor – (TTU, see above) September 2006 to August 2009 Assistant Professor – (TTU, see above) August 2001 to August 2006 Research Associate - Professor Tucker Carrington, Jr. (advisor), Université de Montréal High resolution molecular spectroscopy (computational) August 2000 to July 2001 Research Associate - Professor John C. Light (advisor), University of Chicago Molecular spectroscopy; quasiclassical phase space model. Oct. 1997 to Aug. 2000 Graduate Student Researcher— Professor William H. Miller (advisor), UC Berkelev Ouantum reaction dynamics (computational) January 1994 to September 1997 AWARDS AND HONORS:

Sigma Xi, Phi Beta Kappa Councilor, American Chemical Society

2015: Visiting Professor, Dresden, Germany (Max Planck Institute)

2013: Plenary Lecturer, Austrian Academy of Sciences

2013: Texas Tech System Barnie E. Rushing, Jr. Faculty Distinguished Research Award

2011: Professeur Invité, Montpellier France (Centre national de la recherche scientifique)

2008: Texas Tech System Chancellor's Council Distinguished Research Award

2005, 2007: TTU Graduating Senior Named Outstanding Faculty Award

2005: TTU College of Arts and Sciences Tribute to Teachers Award

2002: U.S. Department of Energy Early Career Award