

grams; for constructing such diagrams, we need to understand not only the qualitative nature of phase equilibria of aqueous proteins but also the quantitative intermolecular forces between proteins in solution. Some examples are given to show how aqueous protein-protein forces can be calculated or measured to yield a potential of mean force and how that potential is then used along with a statistical thermodynamic model to establish liquid-liquid and liquid-crystal equilibria. Such equilibria are useful not only for separation processes but also for understanding diseases like Alzheimer's, cataracts, and sickle-cell anemia that appear to be caused by protein agglomeration.



cheme.berkeley.edu/people/faculty/prausnitz/prausnitz.html

The Rossini Lecture—A Brief History

In recognition of the contributions of Prof. F. D. Rossini to the work of the IUPAC Commission on Thermodynamics and Thermochemistry during his 39-year membership (1934–1973), the Commission decided, in 1973, to institute a "Rossini Lecture," to be given during the IUPAC International Conferences on Chemical Thermodynamics. The first lecture was given by Prof. Rossini himself at the Fourth Conference held in August 1975 in Montpellier, France. Rossini lecturers were appointed by the Commission on Thermodynamics until 2002, but, as a result of the restructuring of IUPAC, they will be elected in the future by the Board of Directors of the newly established International Association of Chemical Thermodynamics. The text of these lectures is published in *Pure and Applied Chemistry* (see table) and in the *Journal of Chemical Thermodynamics* (see table).

Freedom of Access to Primary Experimental Data

For science to progress it is critical that research results are disseminated as widely as possible, and in particular that primary experimental data are freely available in perpetuity. In 1998, as a result of concern amongst the scientific community over this issue, the International Council for Science (ICSU) set up an Inter-Union Bioinformatics Group (IUBG) to consider this and related matters, with particular emphasis on bioinformatics. The issue of free access is particularly relevant now in relation to the availability of data from genomic and proteomic studies.

Rossini Lectures, 1975–2003

1975	Frederick D. Rossini Montpellier, France, 26–30 Aug 1975 <i>JCT</i> 1976, 8 , 803–834
1977	Henry A. Skinner Ronneby, Sweden, 23–26 Aug 1977 <i>JCT</i> 1978, 10 , 309–320
1980	Stig A. Sunner Merseburg, Germany, 26–29 Aug 1980 (died before his Lecture)
1982	Edgar F. Westrum (University of Michigan, USA) London, UK, 6–10 Sep 1982 <i>PAC</i> 1983, 55 (3), 539–551; <i>JCT</i> 1983, 15 , 305–325.
1984	Maxwell L. McGlashan (University College, London, UK) ICCT, Hamilton, Ontario, Canada, 13–17 Aug 1984 <i>PAC</i> 1985, 57 (1), 89–103; <i>JCT</i> 1985, 17 , 301–319.
1986	Ernst-Ulrich Franck (Universität Karlsruhe, Germany) 9th ICCT, Lisbon, Portugal, 14–18 Jul 1986 <i>PAC</i> 1987, 59 (1), 25–34; <i>JCT</i> 1987, 19 , 225–242
1988	Kenneth S. Pitzer (UC Berkeley, CA, USA) 10th ICCT, Prague, Czechoslovakia, 29 Aug — 3 Sep 1988 <i>PAC</i> 1989, 61 (6) p. 979–988; <i>JCT</i> 1989, 21 , 1–17
1990	Gerhard M. Schneider (Ruhr-Universität Bochum, Germany) 11th ICCT, Como, Italy, 26–31 Aug 1990 <i>PAC</i> 1991, 63 (10), 1313–1326; <i>JCT</i> 1991, 23 , 301–326.
1992	John S. Rowlinson (Oxford, UK) 12th ICCT, Snowbird, Utah, USA, 16–21 Aug 1992 <i>PAC</i> 1993, 65 (5), 873–882; <i>JCT</i> 1993, 25 , 449–461.
1994	Hendrick C. Van Ness (Rensselaer Polytechnic Institute, Troy, NY, USA) 13th ICCT, Clermont-Ferrand, France, 17–22 Jul 1994 <i>PAC</i> 1995, 67 (6), 859–872; <i>JCT</i> 1995, 25–27 , 113–134.
1996	Robert A. Alberty (MIT, Cambridge, MA, USA) 14th ICCT, Toyonaka, Osaka, Japan, 25–30 Aug 1996 <i>PAC</i> 1997, 69 (11), 2221–2230; <i>JCT</i> 1997, 29 , 501–516.
1998	Stanley I. Sandler (University of Delaware, Newark, DE, USA) 15th ICCT, Porto, Portugal, 26 Jul – 1 Aug 1998 <i>PAC</i> 1999, 71 (7), 1167–1181; <i>JCT</i> 1999, 31 , 3–25.
2000	William A. Wakeham (University of Southampton, UK) 16th ICCT, Halifax, Nova Scotia, Canada, 6–11 Aug 2000 <i>JCT</i> 2001, 33 , 1623–1642; <i>PAC</i> 2000, 72 (10) includes other presentations pp. 1799–2082.
2002	John M. Prausnitz (UC Berkeley, CA, USA) 17th ICCT, Rostock, Germany, 28 Jul – 2 Aug 2002