

## Professor Wolfgang Kiefer



**Name** Wolfgang Kiefer  
**Date of birth** 12<sup>th</sup> February 1941  
**Place of birth** Pforzheim, Germany  
**Nationality** German

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### Education and Career

1947-1951	Primary School Calmbach, Germany
1952-1955	Gymnasium Bad Wildbad, Germany
1956-1960	Gymnasium München-Pasing, Germany
1961-1967	Undergraduate and graduate study in Physics, LMU-University Munich, Germany
1967-1970	Research Assistant, Sektion Physik LM-University Munich, Lehrstuhl Prof. J. Brandmüller, Germany
1970	PhD in Physics, Thesis on “Raman spectroscopy with a ruby laser – Raman spectra of inorganic compounds”
1970-1972	Postdoc NRCC, Division of Chemistry, Ottawa, Canada
1972-1973	Assistant, University of Munich, Germany
1974	Research Associate, Max-Planck-Institute for Solid State Physics, Group of Prof. M. Cardona, Stuttgart, Germany
1975-1977	Habilitation in Physics, University of LM-Munich
1977	Dr. rer.nat. habil., LM-University Munich, Germany
1977-1984	Professor of Physics, University of Bayreuth, Germany
1985-1988	Full Professor of Physics, Head of the Institute for Experimental Physics, University of Graz, Austria
1988-2006	Full Professor of Physical Chemistry and Head of Institute for Physical Chemistry, University of Würzburg, Germany
1996-1997	Dean of Faculty of Chemistry and Pharmacy, University of Würzburg, Germany
2006-present	Retired Professor from University of Würzburg, Germany

### National and International Activities:

European Editor for the Journal *"Applied Spectroscopy"* (1977 - 2000)  
Member of Editorial Board of the Journal *"Asian Journal of Physics"* (from 1993)  
Member of Editorial Board of the *"Journal of Raman Spectroscopy"* (from 1980)  
Associate Editor of the *"Journal of Raman Spectroscopy"* (1995-1999)  
Chief-Editor of the *"Journal of Raman Spectroscopy"* (2000-2009)  
Member of the Editorial Board of the Journal *"Spectroscopy Letters"* (from 1996)  
Member of the Editorial Advisory Board of *"Trends in Applied Spectroscopy"* (from 1996)  
Member of the Editorial Board of the Journal *"Asian Journal of Spectroscopy"* (from 1997)  
Member of the Editorial Board of the Journal *"Asian Chemistry Letters"* (from 1997)  
Member of the Editorial Board of the Journal *"Chemical Physics Letters"* (1998-2003)

Member of the Editorial Board of the Journal "*Chinese Journal of Light Scattering*" (from 2002)  
 Member of the IUPAC Commission for Infrared and Raman Spectroscopy (1981-1990)  
 Association of British Spectroscopists Lecturer (1981)  
 Director of a NATO Institute on Nonlinear Raman Spectroscopy (1982)  
 Member of Steering Committee for International Raman Conferences (from 1980)  
 Member of Steering Committee for European CARS Workshops (1982-2000)  
 Member of Organizing and Program Committees of various International Conferences on Raman Spectroscopy (1976, 1978, 1992, 2002)  
 Chairman of the XIIIth International Conference on Raman Spectroscopy, Würzburg (1992)  
 Chairman of the International Steering Committee for International Raman Conferences (1994-1996)  
 Chairman of the Section Lower Franconia of the German Chemical Society, (1992 - 1993)  
 Vice-president of the Physical-Medical Society (Würzburg) (1997-1998)  
 Member of the following Societies: German Physical Society, Bunsen Society for Physical Chemistry, German Chemical Society, Optical Society of America, Society for Applied Spectroscopy, Coblenz Society, American Physical Society, American Association for the Advancement of Science.

### **Honours:**

Visiting Professor of Hong Kong University of Science and Technology (1993)  
 Visiting Professor of Waseda University, Tokyo (1993)  
 Guest Professor of Zhengzhou University, Zhengzhou, P.R. China (1995)  
 Honorary Professor (Prof. h.c.) of Wuhan University, Wuhan, P.R. China (1995)  
 Member of the Advisory Board of the Committee on Light Scattering of the Chinese Physical Society (from 1997)  
 Foreign Councillor of the Institute for Molecular Science, Okazaki, Japan (1999-2001)  
 Honorary Fellow of the Laser and Spectroscopy Society of India (F.L.S.S.) (1999)  
 Distinguished Service Award of the Society for Applied Spectroscopy, USA (2000)  
 Visiting Professor of National University of Singapore (2001)  
 23<sup>rd</sup> Annual Pittsburgh Conference Lecturer (2003)  
 Honorary Doctor (Dr.h.c.) from University of Cluj-Napoca, Romania (2003)  
 Appointment as a member of the International Advisory Group of the Committee of Light Scattering, Chinese Physical Society (2003-2007)  
 Special Issue of Asian Chemistry Letters (Vol. 8, No. 1, 2004) in honour of W.K.  
 INCONS 2005 Award (International Conference on Spectrophysics, Chennai, India (2005)  
 Honorary Member Award of the Society for Applied Spectroscopy, USA (2005)  
 Fellow of the Society for Applied Spectroscopy, USA (2005)  
 Honorary Professor (Prof. h.c.) and Academic Committee Member of Capital Normal University Beijing, China (2005)  
 Special Issue of the Journal of Raman Spectroscopy (Vol. 37, No. 1-3, 2006) in honour of W.K.: <http://onlinelibrary.wiley.com/doi/10.1002/jrs.1487/pdf>  
<http://www.spectroscopynow.com/details/ezone/sepspec12731ezone/Wolfgang-Kiefer---a-remarkable-career-reviewed.html>  
 Pittsburgh Spectroscopy Award, USA (2006): [http://www.spectroscopynow.com/userfiles/sepspec/file/PDF\\_files/General\\_PDF/Pittcon2006\\_spectroscopyaward\\_kiefer.pdf](http://www.spectroscopynow.com/userfiles/sepspec/file/PDF_files/General_PDF/Pittcon2006_spectroscopyaward_kiefer.pdf)  
 First International Raman Award, India (2008): <http://idw-online.de/pages/de/news255469>  
 Special Issue of the Zeitschrift für Physikalische Chemie in honour of W.K. (Vol. 226, Heft 6-7, Juni 2011).  
 Raman Lifetime Award, XXIV. International Conference on Raman Spectroscopy (ICORS 2014), Jena, Germany: <http://www.icors2014.org/index.php/14-beispielbeitraege/195-award-ceremony-during-icors2014>

### **Publications:**

Co-Editor of 5 books  
 865 publications (631 peer reviewed journal articles, 5 books, 50 book chapters, 179 Proceedings/Conference papers) in journals and books  
 Papers can be downloaded from: [https://www.researchgate.net/profile/Wolfgang\\_Kiefer/](https://www.researchgate.net/profile/Wolfgang_Kiefer/)

**Research areas:**

Laser Physics, Femtosecond Coherent Four-Wave-Mixing Spectroscopy (e.g. Coherent anti-Stokes Raman Spectroscopy, Degenerate Four-Wave-Mixing); Studies of ultrafast ground and excited state dynamics in gases and in dense materials; Coherent control of vibrations; Nanosecond CARS spectroscopy; Resonance Raman spectroscopy; Development of theories for resonance Raman scattering; FT-IR spectroscopy and density functional theory calculations on metal complexes; Raman spectroscopy on non-crystalline samples (glasses, etc.), nanostructures, II-VI semiconductor quantum dots and quantum wires, biological and biochemical samples, polymers, and phase transitions; Raman and Mie scattering from micro-particles; Surface Enhanced Raman Scattering (SERS); Development of special techniques for linear and nonlinear Raman spectroscopy; Matrix isolation spectroscopy; Micro-Raman imaging and mapping; CARS microscopy.