



**Silvia Elsa Braslavsky**

April 5th, 1942 / Buenos Aires, Argentina

### ACADEMIC POSITIONS:

**1978-2007 (retired in April 2007)** Senior Research Scientist, Max-Planck-Institut für Bioanorganische Chemie (formerly Strahlenchemie).  
**2006-** Corresponding Member, CONICET (Argentine Research Council)

*Degrees:* **1963** Licenciada in Chemistry, Facultad de Ciencias Exactas y Naturales, Univ. Buenos Aires, Argentina. **1971** (completed **1968**) Ph.D. with highest honors, same University.

### *Honors-Awards:*

**1987-1999** Visiting Professor, Facultad de Ciencias Exactas y Naturales, Universidad de Buenos Aires.

**1992** Weissberger-Williams Lecturer, Eastman Kodak, Rochester.

**1998** Annual Research Award, American Society for Photobiology.

**2003** Dedicated Issue of Journal *Photochem. Photobiol. Sc.* (2, 7)

**2004** Research Award Elhuyar-Goldschmidt, Real Sociedad Española de Química and Gesellschaft Deutscher Chemiker (GDCh). Awarded in Logroño, June 2005.

**2006** Special Recognition for the Engagement for Latin-American Science, Inter-American Photochemical Society, Salvador, Brasil.

**2007** Distinguished Visiting Professor, University of Ottawa, Canada.

**2007** Visiting Professor, Universidad Nacional de La Plata, Argentina

**2007, 2008-2010** César Milstein Grant (SECYT, Argentina) to perform scientific visits in Argentina

### SPECIAL COMMITMENTS:

**Present:** **2004-2009:** German Representative, Organic and Biomolecular Chemistry Division IUPAC, **2000-2009** Chair of IUPAC Sub-Committee on Photochemistry, **2009** Jury member of the „Institut Universitaire de France“.

Regular reviewer for several Journals, as well as for the Argentine, Chilean, German, The Netherlands, Belgian, Canadian, Czech, Portuguese, and other Research Councils and Agencies, and for several US Granting Agencies (Department of Agriculture, Department of Energy, National Science Foundation, National Institute of Health).

**Past (since 2002):** **2002-2005:** Scientific Advisor *Photochem. Photobiol. Sciences*. **2002-05:** Associate Ed. *Accounts Chemical Research*. **2004:** Editor Special Issue *Photochem. Photobiol. Sc.* on Biological Photosensors. **2005:** Evaluation panel member of *Physical Chemistry Chemical Physics*. **2005:** Working Panel *Futur: Biological Engineering*, BMBF (German Minister for Education and Research). **2006:** European Union, member of evaluation panel for International Cooperation Projects (INCO).

### RESEARCH AREAS

(i) Chromophore-protein interactions in photoreceptors. Determination of kinetic and thermodynamic parameters, as well as time-resolved movements in biological photoreceptors and photosensors (*e.g.*, photosynthetic units, retinal proteins, photoactive yellow protein and phytochromes - natural and recombinant) and of chromophore models thereof, *i.e.*, isomerizable chromophores and electron transfer systems. (ii) Development of ns-laser flash photolysis and time-resolved photobaric (laser-induced optoacoustic spectroscopy) and photorefractive (photothermal beam deflection) methods. (iii) Spectroscopic studies of

sensitised singlet molecular oxygen production. Steady state and time-resolved near-IR emission studies. **189 publications in peer-reviewed international journals plus special publications, reviews and chapters in reference books.**

### **ACADEMIC CAREER:**

**1969-72** Post-doctoral Fellow, Penn State Univ., USA. **1972-75** Associate Professor Univ. Rio Cuarto, Argentina. **1975** Research Associate, Penn State Univ., USA. **1975-76** Post-doctoral fellow, Univ. of Alberta, Canada. **1976-78** Visiting Scientist, Institut für Strahlenchemie im MPI Kohlenforschung.

### **INVITED TEACHING** (since 2003)

**2003** School on Photochemistry, Santiago de Compostela, Spain. **2004** Ibero-American School on Optics, Isla Margarita, Venezuela. **2006** Universidad del Centro, Tandil, Argentina. **2007** Iberic Photochemistry School, Faro, Portugal., Univ. de La Plata, Argentina, Univ. of Ottawa, Canada.

### **GRANTS** (since 2000)

**2000-03:** CONICET (Argentina), cooperation with J. Olabe (Facultad de Ciencias Exactas y Naturales, Univ. Buenos Aires) "Photochemical NO Delivery in Mixed Cyanide-Nitrosyl Coordination Compounds". **2001-04:** DFG, cooperation with J. Casal (Facultad de Agronomía, Univ. Buenos Aires) "Chromophore-Protein Interactions in Phytochromes, in Connection with the Control of the High Intensity Response (HIR)". **2001-04:** Volkswagenwerk Foundation "Time-resolved thermodynamic profile of photoinduced electron-transfer reactions".

### **ORGANIZATION OF SYMPOSIA AND MEETINGS** (since 2003)

**2003:** Symposium "Environmental Photobiology", ESP Congress, Vienna. **2005:** Symposium "Light regulation in plants: growth and rhythms", European Soc. Photobiol. Congress, Aix-les-Bains.

### **PLENARY (\*) AND SPECIAL LECTURES** (a selection since 2003)

**2003:** International Conference on Photochemistry, Nara, Japan; Amsterdam Meeting on Biological Photosensors; Jornadas Ibéricas de Fotoquímica, Santiago de Compostela.

**2004:** (\*)Four-Countries (Austria, Germany, Hungary, Switzerland) Photochemistry Conference, Badgastein, Austria; Flavin-based blue-light receptors, Parma, Italy; Technical University Munich; 51th Open Seminar on Acoustics, Danzig, Poland; VIII Encuentro Latino-Americano en Optica, Laseres y sus Aplicaciones, Isla Margarita, Venezuela; VIII ELAFOT (Latin-American Photochemistry Meeting), La Plata, Argentina.

**2005:** (\*)VII Congreso Fotoquímica, Grupo de Fotoquímica de España, Logroño; (\*)Gordon Research Conference on Photoacoustics, Trieste; Symposium on Reactive Intermediates, Ottawa, Canada; 6<sup>th</sup> Conf. Tetrapyrrol Photoreceptors, Luzern; Univ. Karlsruhe.

**2006:** IUPAC Symp. Photochemistry, Kyoto; Inter-American Photochemical Soc. Meeting, Salvador de Bahia, Max-Planck-Society-sponsored German-Argentine Workshop: "Smart biosensors and nanoactuators for studies of living cells", University Buenos Aires.

**2007:** Jornadas Ibéricas de Fotoquímica, Faro, Portugal; University of Ottawa; Ryerson University, Toronto; Max-Planck-Society-sponsored German-Argentine Workshop: "Multiparametric probes and agents of cellular function".

## HUMAN RESOURCES

### *Thesis Advised in Germany*

**Klaus Heihoff**, Universität Bochum, Physics, 1986.

**Dagmar Schneider**, Universität Bochum, Chemistry, 1988.

**Santiago Nonell**, Instituto Químico de Sarriá, Barcelona, Spain, Chemistry, 1988.

Otto Hahn Medal of the Max-Planck-Society.

**Christian Nitsch**, Universität Düsseldorf, Chemistry, 1988.

**Peter Lindemann**, Universität Mainz, Biology, 1990.

**Mathias Rohr**, Universität Düsseldorf, Biophysics, 1992.

**Ulf Westphal**, Universität Bielefeld, Biology, 1994.

**Peter Schulenberg**, Universität Düsseldorf, Biophysics, 1994.

Otto Hahn Medal of the Max-Planck-Society.

**Thomas Gensch**, Universität Düsseldorf, Biophysics, 1996.

1998 Casimir-Ziegler Prize, Royal Academy of Sciences, Amsterdam and North-Rhein

Westfalen Academy of Sciences, Düsseldorf.

**Ingolf Michler**, Humboldt Universität, Berlin, Physics, 2001.

**Víctor Martínez Junza**, Universidad Ramón Llull, Barcelona, Chemistry, 2006.

Co-Director: Santiago Nonell.

### *Thesis co-advised in Argentina*

**Gabriel M. Bilmes**, Universidad de La Plata, Argentina, Physics, 1987.

**R. Martín Negri**, Universidad de Buenos Aires, Physical Chemistry, 1991.

**Gabriela Lagorio**, Universidad de Buenos Aires, Physical Chemistry, 1991.

**Marta Daraio**, Universidad de Buenos Aires, Physical Chemistry, 1993.

Best 1994 Chemistry Thesis, Universidad de Buenos Aires.

**Anita Zalts**, Universidad de Buenos Aires, Physical Chemistry, 1995.

**Mariela Videla**, Universidad de Buenos Aires (experimental work in Germany), Chemistry; Co-Director: J.

Olabe. 2005

**Julieta Mateos**, Universidad de Buenos Aires (experimental work in Germany); Co-Director: J. Casal. 2006

## POST-DOCTORAL FELLOWS

43 post-doctoral fellows from 19 Countries (Australia, Belgium, Canada, China, France, Germany, India, Irak, Italy, Japan, Malta, Spain, Sweden, Switzerland, Singapur, The Netherlands, UK, USA) have been trained.

*From Argentina:* G. Andrés, P. Aramendía, S. Bertolotti, G. Bilmes, C. Borsarelli, F. Cabrerizo, S. Churio, N.A. García, D. Mártire, A. Rizzi, and O. Roveri. 9 of them hold academic positions in Argentina (P. Aramendía, N.A. García, and Oscar Roveri are regular full-professors).

## SENIOR RESEARCH VISITORS

Pedro Aramendía (Argentina), Josefina Awruch (Argentina), John Connolly (Fullbright fellow, USA), Sandra Churio (Argentina), Lelia Dixelio (Argentina), Norman A. García (Argentina), Michalai Kruk (Bielorussia), Aba Losi (Italy), Shmuel Malkin (Israel), Daniel Mártire (Argentina), Peter Mulder (The Netherlands), Miguel Neumann (Brasil), Santiago Nonell (Spain), Miguel A. Rodríguez (Spain), Enrique San Román (Argentina), Oscar Roveri (Argentina), Francesc Trull (Spain), Cristiano Viappiani (Italy), Richard Weiss (USA), Inmaculada Yruela (Spain).