

PERSONAL DATA

Name : **Gabriel Julio CUELLO**
Passport : **17 382 454 N (ARG)**
Sex: **Male**
Birth date: **April 1st, 1965**
Birth place: **Buenos Aires, Argentina**
Citizenship : **Argentine and French**
Marital Status : **Married (2 children)**
Personal address : **46, Boulevard du Maréchal Foch
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Work address : **Institut Max von Laue – Paul Langevin, BP 156
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e-mail: cuello@ill.eu**
Present position: **Scientist, Science Division, Institut Laue Langevin, France**



EDUCATION

- **M.Sci. in Physics**, Mathematics, Astronomy and Physics Faculty, Córdoba National University, Argentina.
Date: December 23, 1987.
Dissertation (in Spanish): Determination of backscattered electron spectrum by Monte Carlo method.
Supervisor: Dr. J.A. Riveros de la Vega.
- **Ph.D in Physics**, Balseiro Institute, Cuyo National University, Argentina.
Date: August 8, 1996.
Dissertation (in Spanish): Synthetic function for neutron scattering in solids.
Supervisor: Dr. J.R. Granada.

PROFESSIONAL EXPERIENCE

- **1990–2002** Assistant Professor, Comahue University, Bariloche, Argentina
- **1997–1998** Post-doc Scientist, Institute for Structure of Matter, Spanish Council for Scientific Research, Madrid, Spain,.
- **1999–2002** Senior Scientist, Argentine Council for Scientific and Technological Research, Atomic Center Bariloche, Argentina,
- **1999-present** Scientist, Science Division, Institut Laue-Langevin, Grenoble, France
- **2003** Graded in 2nd position as Instrument Scientist at the Spallation Neutron Source (SNS), USA.
- **2004** Graded in 1st position as Instrument Scientist at the OPAL Reactor (ANSTO), Australia.
- **2004** Ramón y Cajal contract, Ministry for Research and Education, Spain.
- **2008** Ikerbasque Senior Scientist, Spain.

CURRENT RESEARCH PROJECTS

- ***Development of analysis tools for data treatment in advanced neutron techniques***
Raíces Program - Argentinean Ministry for Research, 2008-present

Responsibility: French responsible (ILL partner)

Budget: 140000 €

- ***Contactless furnace for high-temperature neutron scattering investigations on liquid oxides and metals***

ANR (National French Agency for Scientific Research)-ILL Project, 2007-2009

Responsibility: ILL partner

Budget: 300000 €.

- ***Operation of the liquid and amorphous diffractometer***

D4C ILL Project, 1999-present

Responsibility: Principal Researcher

Budget: 25000 €/year

INVITED TALKS AND SEMINARS: 36

ORGANIZATION OF CONFERENCES: 11

ADMINISTRATION

- **Jul 2003-Jul 2005** Secretary, College 6 (Liquid and amorphous systems) at ILL.
- **Sep 2006-Jun 2010** Secretary, Spanish Society for Neutron Techniques.
- **Dec 1989-Jan 1992** Head of Physics Department at the Bariloche Regional Center, Comahue University, Argentina.
- **Feb 1994-Mar 1997** Head of Physics Department at the Bariloche Regional Center, Comahue University, Argentina.
- **Feb 1994-Jul 1996** Administration Council at the Bariloche Regional Center, Comahue University, Argentina.
- **Aug 1996-Mar 1997** Board of Directors (Professor) at the Bariloche Regional Center, Comahue University, Argentina.

MEMBER OF COUNCILS

- **2010-present** Reviewer for the ORNL neutron scattering science program for the Spallation Neutron Source (SNS) and High Flux Isotope Reactor (HFIR) facilities.
- **2008-present** Member of the ISIS Facility Access Panel (FAP2: Disordered Materials)
- **2005-present** Scientific Council, Association "Petits Débrouillards Rhône-Alpes".
- **2006-2010** Specialist, College 6 (Liquid and amorphous systems) at ILL.
- **Sep 2004-Jun 2010** Steering Committee, Spanish Society for Neutron Techniques.
- **Aug 1996-Mar 1997** Steering Council at the Bariloche Regional Center, Comahue University, Argentina.
- **2005-2010** International Advisory Committee of the 8th, 9th and 10th International Workshops on Non-Crystalline Solids

ACADEMIC RECORDS

Teaching

- Student Assistant, General Physics, Córdoba University, Argentina, July 1985 – February 1988.

- Graduate Assistant, General Physics, Comahue University, Argentina, April – November 1988.
- Lecturer Assistant, General Physics, Comahue University, Argentina, December 1988 – March 1990.
- Assistant Professor, General Physics, Comahue University, Argentina, April 1990 – September 1999.
- Lecturer Assistant, Balseiro Institute, Cuyo University, Argentina, February 1999 – January 2000.
- Lecturer Assistant, Maison de Magistères, Joseph Fourier University, France, April 2000, April 2001, April 2002, April 2003, April 2004, April 2005, March 2007, March 2011.
- Lecturer Assistant, Maison de Geosciences, Joseph Fourier University, France, January 2010.

Participation as Member of Academic Committees

9 oppositions for Professor and Assistant posts, Comahue University, in 1992–1999; 2 Ph.D defences at Autonomous University of Madrid, Madrid, Spain; 2 Ph.D defences at the University of Orléans, Orléans, France., 2 Ph.D defences at the Basque Country University, Bilbao, Spain; 1 Ph.D defence at Balseiro Institute, Cuyo University, Bariloche, Argentina.

Human resource supervision

Supervisor of students and trainees: 10

Supervisor of PhD students: 4

Supervisor of post-docs and researchers: 6

Dictated International postgraduate courses: 8

Languages

- Spanish: speak, read and write
- English: speak, read and write
- French: speak, read and write
- Italian: basic knowledge

Short Overview on Publications

Number of articles: 167

Number of cites: 1167

h-index: 17

Most cited articles:

Low-temperature specific heat and glassy dynamics on a polymorphic molecular solid

C. Talón, M. A. Ramos, S. Vieira, G. J. Cuello, et al.

Physical Review B **58**, 745-755 (1998)

75 cites

Topological versus chemical ordering in network glasses at intermediate and extended length scales

P. S. Salmon, R. A. Martin, P. E. Mason, and G. J. Cuello

Nature **435**, 75-78 (2005).

71 cites

D4C: A very high precision diffractometer for disordered materials

H. E. Fischer, G. J. Cuello, P. Palleau, D. Feltin, A. C. Barnes, Y. S. Badyal, and J. M. Simonson

Applied Physics A: Material Science & Processing **74**, S160-S162 (2002).

50 cites

Last 10 published articles:

167. Cordierite synthesis. A time-resolved neutron diffraction study
J. M. Benito, X. Turrillas, G. J. Cuello, A. H. de Aza, S. de Aza, M. A. Rodríguez
Journal of the European Ceramic Society 32, 371-379 (2011).
URL: <http://dx.doi.org/10.1016/j.jeurceramsoc.2011.09.010>
166. Structural investigation in Cu-In-Sn alloys around 60 at.% Cu for Pb-free transient liquid phase bonding, S. Sommadossi, G. Aurelio, G. J. Cuello
Journal of Physics: Conference Series 325, 012026 (2011).
URL: <http://dx.doi.org/10.1088/1742-6596/325/1/012026>
165. Dislocations and point defects in neutron irradiated single crystalline Mo at elevated temperatures
O. A. Lambri, G. J. Cuello, G. I. Zelada-Lambri, P. B. Bozzano, J. A. García
Journal of Physics: Conference Series 325, 012017 (2011).
URL: <http://dx.doi.org/10.1088/1742-6596/325/1/012017>
164. Proposal for instruments for small and medium size neutron facilities
G. J. Cuello, J. Dawidowski, J. R. Granada, J. R. Santisteban, J. J. Blostein, L. A. Rodríguez Palomino
Journal of Physics: Conference Series 325, 012013 (2011).
URL: <http://dx.doi.org/10.1088/1742-6596/325/1/012013>
163. Magnetic structure and magneto-volume anomalies in Er₂Fe₁₇ compound
P. Álvarez, P. Gorria, J. Sánchez Marcos, I. Puente-Orench, J. A. Rodríguez-Velamazán, G. J. Cuello, J. L. Sánchez-Llamazares, J. A. Blanco
Journal of Physics: Conference Series 325, 012011 (2011).
URL: <http://dx.doi.org/10.1088/1742-6596/325/1/012011>
162. Tuning magnetic critical behaviour in Ti-manganites by doping with vacancies in A-sites: Sr_{1-x}LaMnTiO_{6-d} (0 < x ≤ 0.15), D. Alonso-Domínguez, I. Álvarez-Serrano, G. J. Cuello, M. García-Hernández, M. L. López, C. Pico, M. L. Veiga
Materials Chemistry and Physics 130, 280-284 (2011).
URL: <http://dx.doi.org/10.1016/j.matchemphys.2011.06.064>
161. Interplay between intra- and intermolecular structures of 1,1,2,2-tetrachloro-1,2-difluoroethane
M. Rovira-Esteve, N. A. Murugan, L. C. Pardo, S. Busch, J. Ll. Tamarit, Sz. Pothoczki, G. J. Cuello, F. J. Bermejo
Physical Review B 84, 064202 (2011).
URL: <http://dx.doi.org/10.1103/PhysRevB.84.064202>
160. Aerodynamic levitation and laser heating: Applications at synchrotron and neutron sources
L. Hennet, V. Cristiglio, J. Kozaily, I. Pozdnyakova, H. E. Fischer, A. Bytchkov, J. W. E. Drewitt, M. Leydier, D. Thiaudière, S. Gruner, S. Brassamin, D. Zanghi, G. J. Cuello, M. Koza, S. Magazù, G. N. Greaves, D. L. Price
European Physical Journal Special Topics 196, 151-165 (2011).
URL: <http://dx.doi.org/10.1140/epjst/e2011-01425-0>
159. Thermal expansion of layered cobaltites Y(Ba_{1-x}Sr_x)Co₂O_{5+d} with x = 0, 0.05 and 0.10
G. Aurelio, S. Bustingorry, R. D. Sánchez, G. J. Cuello
Journal of Physics: Condensed Matter 23, 315403 (2011).
URL: <http://dx.doi.org/10.1088/0953-8984/23/31/315403>
158. Mg coordination in a MgSiO₃ glass using neutron diffraction coupled with isotopic substitution
L. Cormier, G. J. Cuello
Physical Review B 83, 224204 (2011).
URL: <http://dx.doi.org/10.1103/PhysRevB.83.224204>