



Brief biographical note

Prof. Dr. José Miguel Martín-Martínez is Full Professor of Inorganic Chemistry, and Head and founder of the Adhesion and Adhesives Laboratory of the University of Alicante (Alicante, Spain). He graduated in Chemistry in 1978 at the University of Granada and obtained his PhD in Chemistry in 1981 at the same University. He was visiting Research in several laboratories in different countries : Centre de Microcalorimetrie (Marseille, France), Department of Chemical Engineering of Penn State University (State Park, Pennsylvania, USA), Department of Chemical Engineering of the University of Amsterdam (The Netherlands), Department of Materials Science of Virginia Tech University (Blacksburg, Virginia, USA).

Prof. Martín-Martínez has been invited as lecturer in several International Conferences and received several awards. He is a recognized expert in Adhesion Science, polyurethane adhesives and bioadhesives for wound clousure.

His professional and scientific activity comprises: handbooks/textbooks (22); book chapters and publications in journals (92); papers published in scientific journals in the ISI ranking (169); monographies (29); papers published in the proceedings of national conferences (131); papers published in the proceedings of international conferences (219); patents of invention (9); participating in different international or national research projects (22); heading of in different international or national research projects (89), projects for private national and international projects (113); direction of master degrees (40); direction of PhD (30); member and organizer of the scientific committee of different international meetings (24); invited lectures at international conferences (69).

Name , salutation: Professor José Miguel Martín-Martínez

Current appointment:

Adhesion and Adhesives Laboratory,
Department of Inorganic Chemistry,
University of Alicante, Alicante (Spain)



Educational Background:

- Graduated in Chemistry, Physical-Chemistry specialization, University of Granada (Spain), 1978. Distinguished high honor award.
- PhD in Chemistry, Faculty of Sciences, University of Granada (Spain), 1981. Distinguished high honor award.

Experience:

- Member of the Advisory Editorial Board of *The Journal of Adhesion (1995-2008)*, *International Journal of Adhesion and Adhesives*, *Rubber Chemistry and Technology*, *The Open Nanoscience journal*, *The Open Engineering journal* and *Recent Patents on Engineering*.
- Co-editor of the *Journal of Adhesion Science and Technology* (since 2008).
- President (2002-2009) and founder of the Spanish Adhesion and Adhesives Society.
- Member at large of the American Adhesion Society (2006-2007).
- Secretary of the American PSA division of the Adhesion Society (2005-2006).



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- Vicepresident of the American PSA division of the Adhesion Society (2006-2007).
- President of the American PSA division of the Adhesion Society (2008-2010).
- Member of the Steering Committee of RENAC network on Nanotechnology (2004-date).
- Member of the Steering Committee of the American Adhesion Society (2005-date).
- Seconded National Expert (END) at the G3 Unit of Research Directorate of the European Commission (July 2005-December 2006).
- First Award for Research in Shoe Industry "FICIA". Elda (Alicante). 1987.
- First Award of the Session of Adhesives in EUROCOAT'98 (Barcelona). 1998. Conference entitled "*A Potential use of attapulgit as filler in polyurethane adhesives*".
- Special Award ASEFAPI of EUROCOAT 2002 (Barcelona). 2002. Paper entitled "Influencia del contenido en resina y de la naturaleza de la cera en las propiedades de adhesivos termofusibles en base EVA".
- Recognition of the CYTED's general Assembly for the achievements reached as International Coordinator of the Network VIII.D. 26 June, 2003.
- ACS silver key tag. Recognition for 10 years of service in the American Chemical Society. September, 2004.
- Award to the best Poster of ACE-X 2008 (Barcelona, 2008). Poster entitled : "Influence of particle size and amount of boron carbide added to epoxy resin to improve mechanical resistance".
- First SIKA award for the best oral communication (modality: young doctor) of IX Congress of Adhesives (Valladolid, 2008). Paper entitled "Influencia del contenido en segmentos duros y grupos iónicos en las propiedades de dispersiones poliuretano que contienen espesante poliuretánico".
- Award for the best paper at X Congress of adhesives (Alicante, 2010). Paper entitled : "Modificaciones superficiales de un caucho sintético vulcanizado de estireno-butadieno mediante tratamiento superficial con tres tipos de plasmas RF a baja presión".
- Award for the best poster at X Congress of Adhesives (Alicante, 2010). Paper entitled: "Tratamiento superficial de halogenación para mejorar la adhesión de suelas de latex vulcanizado utilizadas en la industria del calzado".
- 9- March -2001 Member of the Chair UNESCO of Biomaterials. University of La Habana (Cuba).
- 3-June-1993. Industrial R&D Advisory Committee – IRDAC. Federation of European Industrial Cooperative Research Organizations – FEICRO.
- 19-November-1996. International coordinator of the Network CYTED VIII.D "Red Iberoamericana de Adhesión y unión de materiales con adhesivos", Subprogramme VIII : "Tecnología de Materiales". CYTED.
- 15- August -1997. Member of Advisory Council of the INTERNATIONAL BIOGRAPHICAL CENTRE CAMBRIDGE. Cambridge (Reino Unido).
- 1-June-2000. Coordinator of the Working Group B of the COST action of the European Community.
- 12-March-2003. President of the Scientific Technical Group of the Spanish Adhesion and Adhesives Group.
- 14-Marzo-2003. Honorary member of the Research Council of INTERNATIONAL BIOGRAPHICAL CENTRE CAMBRIDGE. Cambridge (United Kingdom).



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- 16- January -2003. Member of the Council of the Centr of Latin-American Studies "Mario Benedetti".
- 12-November-2003. Secretary / treasurer of the "Pressure Sensitive Adhesive division of the Adhesion American Society". Period 2004-2006.
- 10- January -2008. Member of the jury awarding the prize "Adhesion Society's Award for Excellence" sponsored by 3M. Tampa Bay, Florida (USA).
- Member of the Spanish Royal Chemical Society. Appointment : January 1984.
- Member of the American Adhesion Society. Appointment : February 1991.
- Member of number of the Materials Institute of the Royal Chemical Society of UK. Appointment : January 1991.
- Member of the Technical Committee of Adhesives. INESCOP. Elda. Alicante. Appointment: January 1991-December 2009.
- Member of the French Adhesion Society (SFA). París. France. Appointment: November 1996.
- Member of IACIS (International Association of Colloid, Interfaces and Surfaces). Appointment : June 1993.
- Member of the Working Group on Adhesives for Footwear - CEN/TC 193 Committee. Appointment : January 1998.
- Member of The New York Academy of Sciences. Appointment : January 1995.
- Member of the *American Chemical Society*. Appointment : June 1995.
- Member of *The Society of Rheology*. Appointment: February 1996.
- Member of AETEP (Spanish Society of Paints). Appointment: February 1996.
- Member of the Spanish Chemical Association of Valencia. Member no. 16527. Appointment: April 1999.
- Member of the Spanish Chemical National Association of Madrid. Member no. 23989. Appointment: April 1999.
- Member of the Spanish Scientific-Technological Group on Adhesion and Adhesives. Appointment : March 2003.
- Member of the Sealants for joints in the building industry. Committee CEN/TC 349. Appointment : November 2004.

Research/clinical interest

Research activity in the fields of:

- Adhesion Science.
- Nanocomposites.
- Inorganic-organic hybrid materials.
- Surface modification of polymers, rubbers and leather.
- Synthesis, formulation and characterization of hot melts, reactive and liquid adhesives.
- Bioadhesives and natural adhesives.
- Polymer/adhesive interfaces.
- Filler-polymer interactions.
- Thermoset coatings.
- Polyurethane adhesives.
- Bioadhesives for disc regeneration of spine.



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Present Areas of Research

The ongoing research work is characterized by the following keywords: Bioadhesives, cyanoacrylate, polyurethane, Adhesion, interfaces, fillers, rubber, leather, wood, cellulose, wound closure for medical applications, natural adhesives, disc regeneration, epoxy adhesives, unsaturated polyester resins.

Title of your BIOMMEDD 2010 lecture:

New cyanoacrylate-based bioadhesives for external wound closure.