

Massimo Morbidelli

Curriculum Vitae

A. Contact Information:

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Politecnico di Milano
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B. Education:

Dottore in Ingegneria Chimica (100/100 cum laude) (Masters), 1977
Politecnico di Milano, Italy

Doctor of Philosophy, 1987
Department of Chemical Engineering,
University of Notre Dame, USA

C. Professional Experience:

CNR Fellow and Ricercatore, 1977 - 1986
Dipartimento di Chimica Fisica Applicata,
Politecnico di Milano, Italy

Guest Faculty Fellow, 1981
Department of Chemical Engineering,
University of Notre Dame, USA

NATO Fellow, 1984
Department of Chemical Engineering,
University of Notre Dame, USA

Professor, Dinamica e Controllo dei Processi Chimici, Dipartimento di Ingegneria Chimica e Materiali, Universita' degli Studi di Cagliari, Italy	1986 - 1991
Director of Studies in Chemical Engineering, Universita' degli Studi di Cagliari, Italy	1986 - 1991
Direttore (Chairman), Dipartimento di Ingegneria Chimica e Materiali, Universita' degli Studi di Cagliari, Italy	1987 - 1990
Professor, Chimica Fisica Applicata, Dipartimento di Chimica, Materiali e Ingegneria Chimica Politecnico di Milano, Italy	1991 - present
Professor, Chemical Reaction Engineering and Separation Technology, Department of Chemistry and Applied Biosciences, ETH Zurich, Switzerland	1995 – 2019
Director of Studies in Chemical and Bioengineering, ETH Zurich, Switzerland	2000 - 2019
Distinguished Visiting Professor, National University of Singapore, Singapore	2000
Vorsteher (Chairman) Institute for Chemical and Bioengineering, ETH Zurich, Switzerland	1997 - 1999 2004 - 2006 2008 - 2010
Vorsteher (Chairman) Department of Chemistry and Applied Biosciences, ETH Zurich, Switzerland	2012 - 2014
Decano Dipartimento di Chimica, Materiali e Ingegneria Chimica Politecnico di Milano, Italy	2010 - present
Visiting Professor, Faculty of Computers, Engineering and Mathematics, University of Adelaide, Australia	2018
PhD Advisor, Completed more than 100 PhD students at Universita' degli Studi di Cagliari, Politecnico di Milano and ETH Zurich	1986 - present

D. Fellowships, Honors and Recognitions:

Italian National Prize Natale Toffoloni, for Research Activity in Applied Physical Chemistry	1979
Fellowship Luigi Miani, Stazione Sperimentale per i Combustibili	1980
NATO Senior Fellowship	1991
R.H. Wilhelm Award in Chemical Reaction Engineering, American Institute of Chemical Engineers, USA	2005
Seminario Gianni Astarita, Università degli Studi Federico II, Napoli	2006
The Golden Owl, Best Teacher of the Year, Department of Chemistry and Applied Biosciences, ETH Zurich, Switzerland	2007
Gerhard Damköhler-Medaille from Process-Net, DECHEMA and VDI-GVC, Germany	2014
Excellence in Process Development Research Award, American Institute of Chemical Engineers, USA	2017
Separation Science and Technology Award, American Chemical Society, USA	2018
Highlights of Contributions to Integrated Continuous Biomanufacturing, ICB Award, 2019	2019

E. Professional Society Memberships:

American Chemical Society
American Institute of Chemical Engineers
Società Chimica Italiana
Associazione Italiana di Ingegneria Chimica
Sigma Xi
Swiss Chemistry Society
International Adsorption Society

F. Professional Activities:

Italian representative, Working Party on Chemical Reaction Engineering, European Federation of Chemical Engineering	1987 - 1997
Member, Editorial Board, Separation Science and Technology, Taylor & Francis Group, Oxford, UK	1990 - present
Member, Board of Directors, International Adsorption Society	1994 - 2004
Member, Editorial Board, Cambridge Series in Chemical Engineering, Cambridge University Press, Cambridge, UK	1996 - 2009
Member, Advisory Board, Industrial & Engineering Chemistry and Research, American Chemical Society, USA	1997 - 2001
Member, Scientific Advisory Board, Novasep, Nancy, France	1998 - 2004
Chairman, International Symposium on Preparative and Industrial Chromatography and Allied Techniques - SPICA, Zurich, Switzerland	2000 and 2008
Guest Editor, Special Issue on SPICA 2000, Separation Science and Technology, Taylor & Francis Group, Oxford, UK	2002
Member, Board of Directors AIChE Division, Catalysis and Reaction Engineering	2002
Member, Scientific Advisory Board Max Planck Institute for Dynamics and Complex Technical Systems Magdeburg, Germany	2002 - 2010
Member, Scientific Advisory Board Solexis Solvay Bollate, Italy	2003 - 2010
Member, International Advisory Board Macromolecular Materials and Engineering, Wiley-VCH Verlag, Germany	2003 - present
Associate Editor, Industrial & Engineering Chemistry Research, American Chemical Society, USA	2005 - present

Member, International Advisory Board, Macromolecular Reaction Engineering, Wiley-VCH Verlag, Germany	2006 - present
Member, Editorial Advisory Board, Chemical Papers, Springer Verlag, Germany	2006 - present
Past-President and Co-founder Spin-off ETH Zurich, ChromaCon AG (www.chromacon.ch), Continuous Chromatography Technologies for Protein Purification, Zurich, Switzerland	2008 - present
Member, Editorial Board, Reviews in Chemical Engineering, Walter de Gruyter Publishers, Germany	2010 – present
Member, Committee, Italian Research and University Evaluation Agency, ANVUR Rome, Italy	2012 - 2014
Member, Scientific Advisory Board, Joint Research Network on Advanced Materials and Systems - JONAS, BASF, Germany	2013 - present
Member, Editorial Board, Reference Module in Chemistry, Molecular Sciences and Chemical Engineering, Elsevier, Oxford, UK	2013 - 2019
Member, Editorial Board, Life Sciences Letters, IEEE Open Access Publishing	2014 - present
Member, Honorary Editorial Board, Antibody Technology Journal, Dove Medical Press	2014 - present
Member, Scientific Committee, Cardio Centro Lugano, Switzerland	2015 - present
Co-founder Spin-off ETH Zurich, DataHow AG, Big Data in Bioprocessing, Zurich, Switzerland	2017 - present

G. Invited Seminars and Plenary Lectures:
(presentations at conferences are excluded)

Technical Seminar, "Ruolo dei Modelli Cinetici nella Simulazione dei Processi Industriali", Montedison, Milano, Italy	May 1979
Technical Seminar, "Ruolo dei Modelli Cinetici nella Simulazione dei Processi Chimici", SOGESTA, Urbino, Italy	October 1980
Technical Seminar, "Aspetti Applicativi della Termodinamica dell'Equilibrio Liquido- Vapore e Liquido-Liquido", SOGESTA, Urbino, Italia	April 1981
Plenary Lecture, Il Convegno Nazionale di Catalisi, Siena, Italy	October 1981
Technical Seminar, "Metodi Numerici per la Soluzione di Equazioni Differenziali a Derivate Parziali Non Lineari", SNAM, Milano, Italy	November 1981
Invited Lecture, Scuola di Perfezionamento in Metodologie Chimiche ed Analitiche della Chimica Fine, Politecnico di Milano, Italy	July 1984
Invited Seminar, Department of Chemical Engineering, Universidad Autonoma Metropolitana, Mexico City, Mexico	July 1984
Invited Seminar, Department of Applied Mathematics, Universidad Autonoma Metropolitana, Mexico City, Mexico	July 1984
Plenary Lecture, VII Congresso Nazionale di Chimica Industriale, Siena, Italy	June 1985
Technical Seminar, "Principi di Chimica Industriale", EniChem Anic, Porto Conte, Italy	July 1986
Invited Lecture, Journée de Calorimétrie d'Analyse Thermique et de Thermodynamique Chimique, Ferrara, Italy	October 1986
Invited Seminar, Department of Chemical Engineering, Technical University Munich, Germany	October 1986
Plenary Lecture, Convegno Nazionale di Chimica Fisica, Siena, Italy	October 1986
Invited Lecture, AIDIC, GdL Distillazione Assorbimento ed Estrazione, Milano, Italy	January 1987
Technical Seminar, "Cinetica e Reattoristica Chimica", EniChem Anic, Porto Conte, Italy	April 1987
Invited Seminar, Department of Chemical Engineering, Università di Bologna, Italy	June 1987
Invited Seminar, ENEL Centro di Ricerca Termica e Nucleare, Pisa, Italy	May 1988
Invited Lecture, NATO Advanced Science Institute on "Adsorption: Science and Technology", Vimeiro, Portugal	July 1988

Invited Seminar, Eniricerche, Monterotondo (Roma), Italy	September 1988
Invited Lecture, "Approccio Ingegneristico al Problema Ambientale", Cagliari, Italy	September 1988
Invited Series of Seminars, Department of Chemical Engineering, Universidad Autonoma Metropolitana, Mexico City, Mexico	December 1988
Invited Seminar, RESISTOL, Mexico City, Mexico	December 1988
Invited Seminar, Department of Organic Technology, Slovak Institute of Technology, Bratislava, Czechoslovakia	September 1989
Invited Seminar, Institute Francais du Petrole, Rueil (Paris), France	September 1989
Technical Seminar, "Chemical Reaction Engineering", ACHEMASIA 89, Beijing, PR China	October 1989
Invited Seminar, Dalian Institute of Chemical Physics, Chinese Academy of Science, Dalian, PR China	October 1889
Invited Seminar, Chemical Engineering Department, University of Notre Dame, Notre Dame, USA	November 1989
Short Course, "Cinetica dei Processi di Polimerizzazione", Scuola ENI, Roma, Italy	January 1990
Invited Seminar, Università degli Studi di Cagliari, Italy	June 1990
Short Course, "Cinetica dei Processi di Polimerizzazione", Scuola ENI, Roma, Italy	January 1991
Invited Seminar, TEMAV, Venezia, Italy	April 1991
Invited Seminar, Dipartimento di Ingegneria Chimica, Università degli Studi di Padova, Italy	May 1991
Invited Lecture, Convegno-Scuola AIM, Gargnano (Brescia), Italy	June 1991
Invited Lecture, Short Course on "Catalyst Design and Deactivation", TEMPUS Project, Bratislava, Czechoslovakia	July 1991
Invited Lecture, NATO Advanced Science Institute on "Chemical Reactor Technology for Environmentally Safe Reactors and Products", London, Canada	September 1991
Invited Lecture, Short Course on "Unsteady Operation of Chemical Reactors", TEMPUS Project, Bratislava, Czechoslovakia	January 1992
Invited Lecture, Workshop on "Modellazione e Controllo della Cinetica di Processo", Istituto Donegani, Novara, Italy	June 1992
Invited Seminar, Politecnico di Torino, Italy	July 1992

Invited Lecture, Workshop on "Dynamics of Reacting Systems", CRS4, Cagliari, Italy	September 1992
Invited Seminar, UOP, Des Plaines, USA	November 1992
Invited Lecture, American Chemical Society Annual Meeting, St. Louis, USA	April 1993
Short Course, "Cinetica Chimica Avanzata", Scuola Normale Superiore, Pisa, Italy	June 1993
Invited Lecture, Scuola della Società Chimica Italiana "Analisi, Simulazione e Dinamica dei Reattori Chimici", Napoli, Italy	September 1993
Invited Seminar, Workshop of the EFCE Working Party on "Polymer Reaction Engineering", Taormina, Italy	November 1993
Invited Seminar, BRITE-EURAM Workshop "Innovative Use of a Proven Technology for Lead and Zinc Residue Recycling", Metaleurop Recherche, Trappes, France	January 1994
Invited Lecture, Conference on "From Elementary Chemical Reactions to Complex Systems", Accademia Nazionale dei Lincei, Perugia, Italy	March 1994
Invited Seminar, BRITE-EURAM Workshop "Intelligent Manufacture of Polymers", Aristotele University of Thessaloniki, Greece	July 1994
Invited Seminar, Himont, Ferrara, Italy	November 1994
Invited Seminar, Russian Academy of Science, Moscow, Russia	November 1994
Invited Seminar, Institut Químic de Sarrià, Universitat Ramon Llull, Barcelona, Spain	November 1994
Invited Seminar, Laboratorium für Technische Chemie ETH, Zürich, Switzerland	December 1994
Invited Seminar, Università di Napoli, Italy	February 1995
Invited Lecture, Convegno Nazionale Società Chimica Italiana Sezione Lombardia, „Cromatografia Analitica, Preparativa e Industriale“, Milano, Italy	March 1995
Invited Seminar, Technical Svlovak University, Bratislava, Slovak Republic	June 1995
Invited Seminar, Workshop "Intelligent Manufacture of Polymers", University of Eindhoven, The Netherlands	June 1995
Invited Seminar, Elsag-Bailey, Genova, Italy	June 1995
Plenary Lecture, 5th International Workshop on "Polymer Reaction Engineering", Berlin, Germany	October 1995
Invited Seminar, European Vynils Corporation Limited, Runkorn, United	November 1995

Kingdom

Invited Lecture, Festschrift for the 60th Anniversary of Prof. Reichert, Technical University of Berlin, Germany	January 1996
Invited Lecture, Course on "Chemical Engineering Dynamics", Braunwald, Switzerland	March 1996
Invited Lecture, Workshop on "Integrated Catalytic Membrane Reactors", Cosenza, Italy	April 1996
Invited Lecture, International Congress on "Fluorine Chemistry", Accademia Nazionale dei Lincei, Roma, Italy	May 1996
Invited Lecture, NATO Advanced Science Institute on "Recent Advances in Polymeric Dispersions", Elizondo, Spain	June 1996
Plenary Lecture, PREP 96, Basel, Switzerland	September 1996
Invited Seminar, Sandoz, Basel, Switzerland ¹	September 1996
Invited Seminar, Malvern, Malvern, United Kingdom	October 1996
Invited Seminar, BRITE EURAM, Workshop on "Reaction Engineering of Heterogeneously Catalysed Polymerizations", CNRS, Lyon, France	October 1996
Invited Seminar, Department of Chemical Engineering, University of Wisconsin, Madison, USA	November 1996
Invited Seminar, Department of Chemical Engineering, Illinois Institute of Technology, Chicago, USA	November 1996
Invited Seminar, Dupont, Wilmington, USA	November 1996
Plenary Lecture, 3rd International Workshop on Polymer Reaction Engineering, Engineering Foundation, Palm Coast, USA	March 1997
Invited Seminar, Department of Chemical Engineering, Ecole Polytechnique Fédérale, Lausanne, Switzerland	April 1997
Invited Seminar, Department of Chemical Engineering, University of Dortmund, Dortmund, Germany	April 1997
Invited Seminar, Givaudan Roure, Dübendorf, Switzerland	May 1997
Invited Seminar, LSGC CNRS, Ecole Nationale Supérieure des Industries Chimiques, Nancy, France	May 1997
Invited Seminar, Pharmaceuticals Division, Hoffmann-La-Roche, Basel, Switzerland	June 1997
Invited Seminar, Novartis Pharma AG, Basel, Switzerland	July 1997

Plenary Lecture, 8th European Congress on Biotechnology, Budapest, Hungary	August 1997
Invited Seminar, Roche VFT-Seminar, Vitamins Division, Hoffmann-La-Roche, Stoaos, Switzerland	September 1997
Invited Seminar, Department of Chemical Engineering, Abo Akademi University, Turku, Finland	September 1997
Invited Seminar, Department of Chemical and Biochemical Engineering, University College London, London, United Kingdom	October 1997
Invited Seminar, Central Research and Development, Du Pont, Geneva, Switzerland	November 1997
Invited Seminar, Prior Technologie AG, Götzis, Austria	January 1998
Invited Seminar, Otto-von Guericke-Universität, Magdeburg, Germany	January 1998
Invited Seminar, Glaxo-Wellcome, Verona, Italy	February 1998
Invited Lecture, Commemorative day of Prof. G. Astarita, Università Federico II, Napoli, Italy	April 1998
Plenary Lecture, PREP'98, Washington, USA	June 1998
Invited Seminar, Meeting of Scientific Committee, Novasep, Nancy, France	June 1998
Invited Lecture, 10 th International Symposium on Chiral Discrimination, Vienna, Austria	September 1998
Invited Lecture, LAGEP, Université Claude Bernard, Lyon, France	September 1998
Invited Seminar, DSM, Vaalsbroek, Holland	October 1998
Invited Lecture, Future Directions in Reaction Engineering Research, Annual AIChE Meeting, Miami, USA	November 1998
Einführungsvorlesung, Kontinuierliche Chromatographie: Fundamentale Aspekte einer Wachsenden Technologie, ETH, Zürich, Switzerland	January 1999
Invited Lecture, Asia-Pacific Chemical Reaction Engineering Symposium, Hong Kong	June 1999
Invited Seminar, National University of Singapore, Singapore	June 1999
Invited Seminar, BRITE EURAM, Workshop on "Reactive Continuous Chromatographic and Membrane Reactors", Vrije Universiteit Brussel, Belgium	July 1999
Invited Seminar, Politecnico di Torino, Italy	September 1999
Invited Seminar, Meeting of Scientific Committee, Novasep, Nancy, France	December 1999

Invited Seminar, Dechema, Frankfurt, Germany	January 2000
Invited Seminar, Solvay, Brussel, Belgium	February 2000
Invited Seminar, Pharmacia & Upjohn, Nerviano, Italy	April 2000
Invited Seminar, Bayer, Leverkusen, Germany	May 2000
Plenary Lecture, International Symposium on Chemical Reaction Engineering (ISCRE 16), Krakov, Poland	September 2000
Invited Seminar, Meeting of Scientific Committee, Novasep, Nancy, France	November 2000
Invited Seminar, Novartis, Basle, Switzerland	November 2000
Plenary Lecture, Chemical and Process Engineering Conference (CPEC) 2000, Singapore	December 2000
Invited Seminar, National University of Singapore, Singapore	December 2000
Invited Lecture, Dechema, Frankfurt, Germany	April 2001
Invited Lecture, IUPAC International Symposium on Free Radical Polymerization: Kinetics and Mechanism, Il Ciocco, Italy	June 2001
Invited Seminar, Meeting of Scientific Committee, Novasep, Nancy, France	June 2001
Invited Lecture, Dechema Course, University of Dortmund, Germany	September 2001
Invited Lecture, International School on Liquid Crystals, Erice, Italy	October 2001
Invited Seminar, Bayer, Leverkusen, Germany	December 2001
Invited Seminar, Max-Planck Institute, Magdeburg, Germany	March 2002
Invited Lecture, Slovak Society of Chemical Engineering, Slovakia	May 2002
Invited Seminar, Meeting of Scientific Committee, Novasep, Nancy, France	June 2002
Invited Lecture, PREP-02, Washington, USA	June 2002
Plenary Lecture, 3 rd World Congress on Emulsion, Lyon, France	September 2002
Invited Seminar, Clariant, Frankfurt, Germany	September 2002
Invited Seminar, BASF AG, Ludwigshafen, Germany	November 2002
Invited Seminar, DECHEMA-Arbeitsausschuss Polyreaktion, Frankfurt/Main, Germany	January 2003
Plenary Lecture, 5th International Workshop on Polymer Reaction, Montreal, Canada	May 2003

Invited Seminar, DECHEMA-AIMs, Workshop on New Materials by Design, Frankfurt/Main, Germany	May 2003
Invited Seminar, BASF AG, Ludwigshafen, Germany	September 2003
Invited Lecture, Workshop "Verfahrenstechnik - wohin?", University Stuttgart, Stuttgart, Germany	October 2003
Invited Seminar, University of Geneva, Geneva, Switzerland	November 2003
Invited Seminar, Ciba, Basel, Switzerland	January 2004
Plenary Lecture, PARTEC 2004, Nürnberg, Germany	March 2004
Invited Seminar, Max Planck Symposium on Integrated Chemical Processes, Max Planck Institute Magdeburg, Germany	March 2004
Invited Lecture, Workshop on New Directions in Polymer Reaction Engineering, BASF, Ludwigshafen, Germany	April 2004
Invited Seminar, Zeochem, Uetikon, Switzerland	May 2004
Plenary Lecture, 17 th International Symposium Preparative / Process Chromatography PREP, Baltimore, USA	May 2004
Plenary Lecture, Convegno GRICU 2004, Ischia, Italy	September 2004
Plenary Lecture, "BioProduction – Antibody Production & Downstream Processing", München, Germany	October 2004
Invited Seminar, Solvay Solexis, Bollate, Italy	November 2004
Invited Seminar, International School on Chirality, Ferrara, Italy	April 2005
Invited Seminar, GRICU PhD National School, Bologna, Italy	April 2005
Plenary Lecture, PREP 2005, Philadelphia, USA	May 2005
Invited Seminar, Purdue University, West Lafayette, USA	May 2005
Invited Seminar, Johnson Polymers, Racine, USA	May 2005
Invited Seminar, Lonza, Visp, Switzerland	June 2005
Invited Seminar, Workshop on Soft Materials, Milano, Italy	July 2005
Short Course, Solid Liquid Separations, Procter & Gamble, Brussels, Belgium	July 2005
Invited Seminar, AIChE Annual Meeting, Cincinnati, USA	November 2005
Invited Seminar, Università di Napoli, Napoli, Italy	March 2006

Invited Seminar, Procter & Gamble, Brussels, Belgium	March 2006
Invited Seminar, Convegno di Chimica Organica, Milano, Italy	November 2006
Invited Seminar, Nanyang Technological University, Singapore	March 2007
Technical Seminar, AIMs General Assembly, Mainz, Germany	April 2007
Invited Seminar, Imperial College London, United Kingdom	May 2007
Invited Seminar, Dechema Vortrags- und Diskussionstagung "Aufbereitung Biotechnologischer Produkte", Frankfurt, Germany	May 2007
Plenary Lecture, Fundamentals of Adsorption FOA92, Giardini Naxos, Italy	May 2007
Plenary Lecture, PREP 2007, Baltimore, USA	June 2007
Plenary Lecture, International Conference on Multiphase Flow - ICMF07, Leipzig, Germany	June 2007
Short Course, Colloidal Engineering, Procter & Gamble, Brussels, Belgium	June 2007
Plenary Lecture, Bio-Pharma Scale-Up Congress, Geneva, Switzerland	September 2007
Invited Seminar, BioProduction, Berlin, Germany	October 2007
Invited Seminar, In Honor of Professor Arvind Varma's Birthday, AIChE Meeting, Salt Lake City, USA	November 2007
Technical Seminar, PCC Meeting AIMs, Leverkusen, Germany	November 2007
Invited Seminar, BIA Separations, Ljubljana, Slovenia	December 2007
Invited Seminar, Summer School on Biological, Chemical and Environmental Separations, Puntarenas, Costa Rica	January 2008
Invited Seminar, University of Cagliari, Cagliari, Italy	February 2008
Invited Seminar, EMPA, St. Gallen, Switzerland	April 2008
Plenary Lecture, BioProcess International, Wien, Austria	April 2008
Plenary Lecture, HPLC 2008, Baltimore, USA	May 2008
Plenary Lecture, PREP 2008, San José, USA	June 2008
Plenary Lecture, 5 th Annual BioProcess International European Conference & Exhibition, Düsseldorf, Germany	April 2009
Invited Seminar, Spring Meeting of Swiss Chemical Society, Division of Polymers and Colloids, Zurich, Switzerland	June 2009

Invited Seminar, 13 th IACIS International Conference on Surface and Colloid Science and 83 rd ACS Colloid & Surface Symposium, New York, USA	September 2009
Invited Seminar, 14 th European Congress on Biotechnology, Barcelona, Spain	September 2009
Invited Seminar, AIChE Annual Meeting, Nashville, USA	November 2009
Plenary Lecture, PREP, Philadelphia, USA	May 2010
Plenary Lecture, ESCAPE20, Ischia, Italy	June 2010
Plenary Lecture, BioProduction, Barcelona, Spain	October 2010
Invited Lecture, ACS Annual Meeting, Anaheim, USA	March 2011
Plenary Lecture, 7 th Annual PEGS, Boston, USA	May 2011
Plenary Lecture, HPLC 2011, Budapest, Hungary	June 2011
Plenary Lecture, PREP 2011, Boston, USA	July 2011
Plenary Lecture, Chempor 2011, Lisbon, Portugal	September 2011
Invited Lecture, AIChE Annual Meeting, Minneapolis, USA	November 2011
Invited Seminar, Merck, Darmstadt, Germany	January 2012
Invited Seminar, Dow, Tarragona, Spain	March 2012
Plenary Lecture, TIDES Oligonucleotide and Peptide, Las Vegas, USA	May 2012
Plenary Lecture, PREP12, Boston, USA	July 2012
Plenary Lecture, Recovery of Biological Products XV, Vermont, USA	August 2012
Invited Lecture, GRICU PhD National School, Montesilvano, Italy	September 2012
Invited Lecture, Daiso, Madrid, Spain	October 2012
Invited Seminar, SBCN12 Bioseparation and Characterization, Bordeaux, France	October 2012
Plenary Lecture, 9 th Hellenic Polymer Society Conference, Thessaloniki, Greece	November 2012
Invited Seminar, BASF, Ludwigshafen, Germany	February 2013
Invited Seminar, Biochemtex, Tortona, Italy	April 2013
Invited Seminar, SABIC, Geleen, The Netherlands	May 2013
Plenary Lecture, PEGS, Boston, USA	May 2013

Plenary Lecture, PREP, Boston, USA	July 2013
Invited Lecture, PBA Pharmaceutical and Biomedical Analysis, Bologna, Italy	July 2013
Invited Seminar, Università del Salento, Lecce, Italy	August 2013
Invited Lecture, GRICU PhD National School, Salice Terme, Italy	September 2013
Plenary Lecture, Integrated Continuous Biomanufacturing, Castelldefels, Spain	October 2013
Invited Lecture, AIChE Annual Meeting, San Francisco, USA	November 2013
Invited Seminar, Polypeptide, Malmö, Sweden	January 2014
Invited Seminar, BASF, Ludwigshafen, Germany	March 2014
Invited Lecture, 10 th International Conference on Protein Stabilization, Stresa, Italy	May 2014
Invited Lecture, Università di Napoli Federico II, Napoli, Italy	May 2014
Invited Seminar, Akzonobel, Göteborg, Sweden	June 2014
Invited Seminar, Aristotle University of Thessaloniki, Greece	July 2014
Plenary Lecture, COBEQ 2014, Florianopolis, Brazil	October 2014
Invited Seminar, PETROBRAS, Rio de Janeiro, Brazil	October 2014
Plenary Lecture, Bio Production Conference 2014, Barcelona, Spain	October 2014
Invited Lecture, AIChE Annual Meeting, Atlanta, USA	November 2014
Invited Seminar, University of Gent, Belgium	November 2014
Invited Seminar, UCB, Brussels, Belgium	December 2014
Invited Seminar, COOPOL-BASF, Frankfurt, Germany	January 2015
Invited Seminar, Merck-Serono, Vevey, Switzerland	February 2015
Invited Lecture, 8 th Annual Bioinnovation Leaders Summit, London, United Kingdom	February 2015
Invited Lecture, Downstream Processing World Congress, Munich, Germany	February 2015
Plenary Lecture, BioProcess International Europe 15, Düsseldorf, Germany	April 2015
Invited Seminar, Cardio Centro, Lugano, Switzerland	April 2015

Invited Lecture, Accademia Pontaniana, Napoli, Italy	April 2015
Invited Lecture, HPLC 2015, Geneve, Switzerland	May 2015
Invited Seminar, Metrohm, Herisau, Switzerland	May 2015
Plenary Lecture, PREP 2015, Philadelphia, USA	July 2015
Invited Lecture, 2015 E – MRS Fall Meeting, Warsaw, Poland	September 2015
Short Course, Continuous Chromatography for Biotherapeutics, Zurich, Switzerland	September 2015
Invited Lecture, BioProduction Conference, Dublin, Ireland	October 2015
Invited Seminar, Cardio Centro, Lugano, Switzerland	October 2015
Invited Seminar, Samsung Bioepis, Incheon, South Korea	April 2016
Plenary Lecture, 12 th International Workshop on Polymer Reaction Engineering (PRE 2016), Hamburg, Germany	May 2016
Plenary Lecture, ISCRE 24, Minneapolis, USA	June 2016
Plenary Lecture, European Conference in Biotechnology (ECB 2016), Krakow, Poland	July 2016
Workshop on Continuous Chromatography, PREP 16, Philadelphia, USA	July 2016
Plenary Lecture, European Symposium on Biochemical Engineering Sciences (ESBES 2016), Dublin, Ireland	September 2016
Short Course, Continuous Chromatography for Biotherapeutics, Zurich, Switzerland	September 2016
MIT/CMAC Continuous Manufacturing Symposium, Boston, USA	September 2016
Invited Lecture, SPICA, Vienna, Austria	October 2016
Invited Lecture, Cell Culture World Congress, Munich, Germany	February 2017
Invited Lecture, Recombinant Protein Production Conference, Dubrovnik, Croatia	April 2017
Invited Seminar, Biological Institute, Shanghai, China	May 2017
Invited Seminar, Wuxi, Shanghai, China	May 2017
Invited Seminar, HEC Pharma, Hong Kong, China	May 2017
Invited Lecture, HPLC 2017, Prague, Check Republic	June 2017

Workshop on Continuous Chromatography, PREP 16, Philadelphia, USA	July 2017
Short Course, Continuous Chromatography for Biotherapeutics, Zurich, Switzerland	September 2017
Invited Lecture, Integrated Continuous Bioprocessing, Cascais, Portugal	September 2017
Invited Lecture, PEACe, Protein Expression in Animal Cell Conference, Valencia, Spain	September 2017
Plenary Lecture, Canadian Institute of Chemical Engineering, Edmonton, Canada	October 2017
Invited Seminar, University of Adelaide, Australia	February 2018
Award Lecture, Separations Science and Technology, ACS National Meeting, New Orleans, USA	March 2018
Invited Lecture, Polymer Reaction Engineering, Santo Domingo	May 2018
Invited Lecture, Continuous Biomanufacturing, Oxford, UK	June 2018
Invited Seminar, Institute for Regenerative Medicine, University Hospital, Zurich, Switzerland	July 2018
Plenary Lecture, PREP 18, Philadelphia, USA	July 2018
Short Course, Continuous Chromatography for Biotherapeutics, Zurich, Switzerland	September 2018
Invited Lecture, International Symposium on Continuous Manufacturing of Pharmaceuticals, London, UK	October 2018
Invited Lecture, Recovery of Biological Products, Asheville, USA	October 2018
Invited Seminar, University of Cerea, Fortaleza, Brasil	November 2018
Short Course on Integrated Continuous Production of Biopharmaceutics, University of Cerea, Fortaleza, Brasil	November 2018

