

Curriculum Vitae

Personal information



First name / Surname

Marco Scatto

Address

Mobile

E-mail(s)

Nationality

Date of birth

Place of birth

VAT number

Work Experience

Date

December 2015-Today

Occupation or position held

Researcher

Main activities and responsibilities

Responsible in R&D activity about Polymer Compounding

Name and address of employer

Nadir srl
c/o Campus Scientifico Università Ca' Foscari Venezia
edificio ETA
Via Torino, 155
30172 Mestre (VE)

Type of business or sector

Development of new polymer compound biologically active and with tailor made properties
Development of atmospheric plasma treatment on polymer surface or filler surface

WP leader in EU H2020 project- project GA685825 –NMP-07-2015-" Functionally graded Additive Manufacturing scaffolds by hybrid manufacturing – FAST"

WP leader in EU H2020 project- project GA745766 – BBI-2016-D05 - "Advanced BIObased polyurethanes and fibres for the autoMOTIVE industry with increased environmental sustainability"-BIOMOTIVE

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Date	February 2013- December 2015
Occupation or position held	Senior Researcher
Main activities and responsibilities	Responsible in R&D activity about Polymer Nanocomposite
Name and address of employer	Veneto Nanotech S.c.p.A Nanofab Facility, Via delle Industrie 5 Marghera (Venice)
Type of business or sector	Technological transfer directed to the application of nanotechnology in the industrial system. Development of polymer nanocomposite materials with enhanced thermal, mechanical, gas barrier properties and with particular functional properties such as high thermal conductivity, antimicrobial and wear resistance. <u>Highlight Projects :</u> <ul style="list-style-type: none"> - Technology Research Program funded by the European Space Agency (ESA) – NSF –Development of Nano-structured Cryogenic Foam Insulation–contract number: ESA-TRP-7144/12/NL/CP - Development of nanostructured polymer films with high gas barriers and with antimicrobial activity. - Development of thermally conductive polymer compound - Development Polyurethane foam with high performance during the Project TP2 LOG - Multi-purpose Integrated Technological Platform for Intermodal Logistics of Fresh and Cold Goods: "Production of Nanocomposite PUR Foam with enhanced thermal insulation properties". <u>Active Project National Operating Program "Research and Competitiveness" 2007-2013</u> (grant: Italian Ministry of Education, Universities and Research). (Leader IFAC INOX SpA) - Development Polyurethane foam with antimicrobial performance during the Project Silver - Nano-antimicrobial technologies and processes for the controlled modification of textiles and other goods. <u>Active Project National Operating Program "Research and Competitiveness" 2007-2013</u> (grant: Italian Ministry of Education, Universities and Research). (Leader Meres SpA- Adler Group) Development of "All in one solution" for the zero energy building roof", Project Industria 2015 "POLIMOD" (http://www.roofmas.com/modular-roof/the-modular-roof-concept/)

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Seminar	<p>Seminar in University of Perugia, 17 June 2015, with title: "Application of nanotechnology in advanced manufacture sector: from bulk additive to surface treatment"</p> <p>Seminar in TECNICA Group (Sport System Industry), with title: " Solution for efficiency in Polymer materials"</p> <p>Seminar Thermo Fisher Scientific, 7 June 2016, with title: "Active nanocomposite production and atmospheric plasma surface functionalization in Additive Manufacturing Industries (Activities involved in the H2020 FAST Project-GA685825)"</p> <p>Seminar in ASI (Italian Space Agency), 21 May 2016, "Primo Workshop Nazionale su: Additive Manufacturing per lo Spazio: Stato dell'arte, Sviluppi e Prospettive" with title of presentation: "Functionally graded Additive manufacturing Scaffolds by hybrid manufacturing (Activities involved in the H2020 FAST Project-GA685825)"</p> <p>Seminar in ISMAC (Institute for Macromolecular Studies), 28 April 2016, with title: "Active nanocomposite production and atmospheric plasma surface functionalization in Additive Manufacturing Industries"</p>
Consultation	<p>Consultation for compounding activity in Twin screw extruder in Chinese Factory, Sinyuan Industrial Material (Group) Co., Ltd Co., Ningbo, P.R. China. Development of Thermoconductive Polymer loaded with Expanded Graphite.</p> <p>Consultation for development of innovative Polyurethane foam nanocomposite with enhanced insulation thermal properties for University of Pisa, Industrial Chemistry Department.</p> <p>Consultation for development of innovative biocompatible polymer material in nose pads, alternative to PVC, for UNIREL srl.</p>
Date	October 2009 – January 2013
Occupation or position held	R&D Scientist and Quality Manager
Main activities and responsibilities	<p>Managing new developments in PUR/PIR rigid foam. New industrial processing control in PUR/PIR foam board production. Improvement in PUR/PIR foam formulation in order to obtain enhanced thermal insulation, flame resistance and mechanical properties.</p> <p>Responsible for ISO 9001:2008 certification and maintenance of certification inside the process of the company.</p>
Name and address of employer	Stiferite s.r.l, Via della Navigazione Interna 54, Padua, Italy
Type of business or sector	Heat insulation sector, Production of polyurethane foam panels
Date	October 2006 – October 2009
Occupation or position held	R&D Polymer Scientist
Main activities and responsibilities	<ul style="list-style-type: none"> - Research & Development of new and innovative materials and processes, mainly in the field of flexible packaging. - Production and characterization of polymer nanocomposite <p><u>Highlight Project:</u> Research Project FIRB 2003_Nanopack D.D.2186 Prot. N. RBNE03R78E</p>
Name and address of employer	C.I.P. Centro Italiano Packaging s.r.l. , Via delle Industrie 25/8 Marghera, Venice
Type of business or sector	Technological transfer directed to the Packaging solutions
Date	September 2000 – October 2006
Occupation or position held	Teacher of Chemistry, Maths, Physics
Main activities and responsibilities	Organize Lessons
Name and address of employer	Istituto Anthea
Type of business or sector	Teaching

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Education and training

<p>Dates</p> <p>Title of qualification awarded</p> <p>Thesis title</p> <p>Supervisor</p> <p>Name and type of organisation providing education and training</p>	<p>September 2003 – July 2006</p> <p>Master Degree in Industrial Chemistry (mark: 110/110 cum laude)</p> <p>"Copolymerization CO-etene catalyzed to [Pd(OAc)₂(dppp)]: study of parameters that influence productivity and molecular weight of polymer [dppp= 1,3 bis(difenilfosfino)propano]"</p> <p>Prof. Andrea Vavasori</p> <p>Dipartimento di Scienze Chimiche, Università Cà Foscari, Venice</p>
<p>Dates</p> <p>Title of qualification awarded</p> <p>Thesis title</p> <p>Supervisor</p> <p>Co-Supervisor</p> <p>Name and type of organisation providing education and training</p>	<p>September 2000 – December 2003</p> <p>Bachelor Degree in Industrial Chemistry (mark: 110/110 cum laude)</p> <p>"Study and optimization of antifoam formulation used in the production process of Suspension PVC "</p> <p>Prof. Andrea Vavasori Dott. Andrea Visentini</p> <p>Dipartimento di Scienze Chimiche, Università Cà Foscari, Venice</p>
<p>Dates</p> <p>Type of education and/or training received</p> <p>Name and type of organisation providing education and training</p>	<p>September 1995 – June 2000</p> <p>Chemical Technician (Perito Chimico) (mark: 100/100)</p> <p>Istituto Tecnico Industriale Statale (I.T.I.S.) "P. Levi", Mirano, Venice</p>
<p>Date</p> <p>Type of education and/or training received</p> <p>Name and type of organisation</p>	<p>30/04/2007 → 04/05/2007</p> <p>XXVIII Convegno-Scuola A.I.M. "Mario Farina" "Polymer material hybrid and nanostructured"</p> <p>A.I.M. Associazione Italiana Macromolecole</p>

Personal skills and competences

Mother tongue(s) **Italian**

Other language(s)

Self-assessment
European level (*)

English

Understanding		Speaking		Writing			
Listening	Reading	Spoken interaction	Spoken production				
C1	Proficient user	C1		Proficient user	C1	Proficient user	C1

(*) *Common European Framework of Reference (CEF) level*

Technical skills and competences

Good skills in basic lab techniques.

Polymer production:

- Melt compounding of thermoplastic polymer with twin screw extruder
- Polyurethane and Polyisocyanurate foam synthesis

Characterisation

- FT-IR
- UV
- XRD (advanced knowledge)

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	<ul style="list-style-type: none"> • XPS (basic knowledge) • TGA-DSC • Rheometry-rotational • Rheometry -capillary • Atomic absorption • Gas Chromatography – Mass Spectroscopy (GC/MS) (basic knowledge) • TEM (basic knowledge) • SEM (basic knowledge) • Image Analysis • Contact angle measurements (basic knowledge) • Determination of gas permeability in polymer film • Determination of thermal conductivity in polymer foam • Determination of shear, compressive and tensile strength in polymer
Social skills and competences	Good attitude to project managing and to work in team.
Computer skills and competences	Competent with most Microsoft Office programmes and large experience with Origin™ for Data Analysis.
Driving Licence	Driving Licence B
Communication at national or international conferences	<p>11 oral contribution in International Conference 13 poster contribution in International Conference</p> <p>- M. Nacucchi, M. Scatto, Nanotaly2015. Roma, Italy from 21-9 to 24-9-2015, "Structural analysis of high performance polymeric foams by high resolution X-ray computed tomography" (C)</p> <p>- M. Scatto, Regional Conference Polymer Processing Society 2015, Graz, Austria, from 21-9 to 25-9 2015, "Active Polyurethane Nanocomposite foams". (P)</p> <p>- M. Scatto, Regional Conference Polymer Processing Society 2015, Graz, Austria, from 21-9 to 25-9 2015, "Active Polymer Nanocomposites: Application in Thermoplastic Polymers". (P)</p> <p>- C.Rosato , M. Scatto, F.Felline, A. Tinti, 1° Workshop on Nanotechnology in Instrumentation and Measurement, Lecce, Italia, from 24-7 to 25-7-2015, "Active Polymer Nanocomposites: application in thermoplastic polymers and in polymer foams" (C)</p> <p>- M. Scatto, P. Scopece, R. Albertoni, M. Andrenucci, NanotechITALY2014, Venezia, Italia, from 26-11 to 28-11-2014, "Synergies in the Development of Advanced Materials for Space Applications". (C)</p> <p>M. Scatto, M.Sisani, L- Manodori, L. Bregoli,, A. Viviani,, G. Brusati, NanotechITALY2013, Venezia, Italia, from 27-11 to 29-11-2013, "Polyporopylene/Layered double hydroxide nanocomposites for active packaging solutions". (P)</p> <p>- S. Coiai, E. Passaglia, N. Muksing, L. Conzatti, P. Stagnaro, M. Scatto, L. Andreotti, M. Sisani, U. Costantino, TUMA 2009, Pisa, Italia, from 20-9 to 22-9-2009, "Factors affecting the dispersion of organo-layered double hydroxides in a polyolefin matrix". (C)</p> <p>- F. Azzurri, L. Conzatti, P. Stagnaro, D. Cavallo, M. Scatto, XVIII Convegno Nazionale AIM (Associazione Italiana Macromolecole), Milano, Italia, from 13-9 to 17-9-2009, "Flow induced crystallization of LDPE nanocomposites". (P)</p> <p>- S. Bronco, M.B. Coltelli, S. Castiello, M. Bertoldo, F. Signori, F. Ciardelli, M. Scatto, E. Salmini, L. Andreotti, Polymerfest, Palermo, Italia, from 30-8 to 2-9-2009, "Fine modulation of Poly(lactic acid) properties by Poly(butylene adipate-co-terephthalate) blending and extrusion process and Acetyl Tributyl Citrate plasticization". (C)</p>

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- **M. Scatto**, L.Andreotti, E. Salmini, M.B. Coltelli, S. Castiello, S. Bronco, L. Conzatti, A. Zanolin, M. Sterner, EPF (European Polymer Congress) 2009, Graz, Austria, from 12-7 to 17-7-2009, "Plasticized and nanofilled PLA composite prepared by melt compounding in a Twin Screw Extruder". (C)
- D. Prevosto, M. Lucchesi, E. Passaglia, M. Bertoldo, S. Coiai, **M. Scatto**, F. Ciardelli, P.A. Rolla, Polychar17 World Forum on Advanced Materials, Rouen, France, from 20-4 to 24-4-2009, "Influence of clay on relaxation dynamics in materials for gas barrier application". (C)
- D. Prevosto; M. Labardi; S. Capaccioli; M. Lucchesi; E. Passaglia; K. Nguyen; M. Bertoldo ; S. Coiai; **M. Scatto**; A. Saiter.; L. Delbreilh; F. Ciardelli; P.A. Rolla, 6th International Discussion Meeting on Relaxations in Complex Systems, from 30-08 to 05-09-2009, "Interfacial relaxation Dynamics in nanocomposite materials". (C)
- **M. Scatto**, L.Andreotti, E. Salmini, A. Zanolin, S. Coiai, M. Sterner, M. Bertoldo, E. Passaglia, L. Conzatti, P. Stagnaro, F. Azzurri, Nanotec2009.it, Roma, Italia, from 31-3 to 3-4-2009, "Polyolefin nanocomposites prepared by melt compounding in a twin screw extruder". (P)
- F. Azzurri, P. Stagnaro, L. Conzatti, D. Cavallo, L. Repetto, **M. Scatto**, L. Andreotti, S. Coiai, 4th International Conference Time of Polymers (TOP) and Composites, Ischia, Italia, from 21-9 to 24-9-2008, "In situ Rheo-SALS experiments on LDPE nanocomposites: a preliminary study". (P)
- F. Ciardelli, A. Pucci, G. Ruggeri, S. Bronco, F. Signori, M.B. Coltelli, L. Andreotti, **M. Scatto**, 4th Nanoforum, Milano, Italia, 17-18 September 2008, " Materiali nanostrutturati e biocompatibili: preparazione, prestazioni e vantaggi per l'agro-alimentare". (C)
- S. Coiai, **M. Scatto**, L. Andreotti, M. Bertoldo, L. Conzatti, E. Passaglia, M. Sterner, XVII Congresso Nazionale di Chimica Industriale, Genova, Italia, from 30-6 to 3-7 2008, "Process parameters for modulating structure and properties of LDPE nanocomposites". (C)
- **M. Scatto**, S. Coiai, L. Andreotti, M. Bertoldo, E. Passaglia, L. Conzatti, M. Sterner, XXIV Meeting della Polymer Processing Society, Salerno, Italia, dal 15-6 al 19-6 2008, "Effect of process parameters on the properties of nanocomposites prepared by melt compounding in a twin screw extruder. (C)
- **M. Scatto**, L. Andreotti, A. Pucci, G. Ruggeri, M. Sterner, XXIV Meeting della Polymer Processing Society, Salerno, Italia, dal 15-6 al 19-6 2008, "Continuous extrusion of polyolefinic films showing macromolecular orientation-dependent linear dichroism". (P)
- **M. Scatto**, S. Coiai, L. Andreotti, M. Bertoldo, E. Passaglia, L. Conzatti, M. Sterner, Congresso EPF (European Polymer Congress) 2007, Portorose, Slovenia, dal 1-7 al 6-7 2007, "Effect of compounding process parameters on the morphological and thermal properties of LDPE-layered silicate nanocomposites". (P)
- L. Andreotti, **M. Scatto**, A. Pucci, G. Ruggeri, M. Sterner, Congresso EPF (European Polymer Congress) 2007, Portorose, Slovenia, dal 1-7 al 6-7 2007, "Monitoring the polyethylene films orientation during melt-processing through UV-Vis and IR spectroscopy in polarized light". (P)
- **M. Scatto**, S. Coiai, L. Andreotti, M. Bertoldo, E. Passaglia, L. Conzatti, M. Sterner, XVIII Convegno Nazionale AIM (Associazione Italiana Macromolecole), Catania, Italia, from 16-9 to 20-9 2007, "Compounding LDPE-layered silicate nanocomposites: effect of process parameters". (P)
- **M. Scatto**, S. Coiai, L. Andreotti, M. Bertoldo, E. Passaglia, L. Conzatti, M. Sterner, Congresso EPF (European Polymer Congress) 2007, Portorose, Slovenia, from 1-7 to 6-7 2007, "Effect of compounding process parameters on the morphological and thermal properties of LDPE-layered silicate nanocomposites". (P)
- L. Andreotti, **M. Scatto**, A. Pucci, G. Ruggeri, M. Sterner, Congresso EPF (European Polymer Congress) 2007, Portorose, Slovenia, from 1-7 to 6-7 2007, "Monitoring the polyethylene films orientation during melt-processing through UV-Vis and IR spectroscopy in polarized light". (P)
- **M. Scatto**, E. Brunengo, L. Conzatti, P. Stagnaro, M. Castellano, XXII Convegno Nazionale AIM (Associazione Italiana Macromolecole), Genova, Italia, from 11 to 14-09-2016, " Valorizzazione di fibre di canapa non tessili per la preparazione di compositi a base di poliestere biodegradabile". (P)

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Publications

Author of 9 scientific articles

- S. Coiai; M. Scatto; M. Bertoldo; L. Conzatti; L. Andreotti; M. Sterner; E. Passaglia; G. Costa; F. Ciardelli; e-Polymers 2009, no. 050, http://www.e-polymers.org/journal/papers/scoiai_280509.pdf; "Study of the compounding process parameters for morphology control of LDPE/layered silicate nanocomposites"

- S. Bronco; A. Pucci; G. Ruggeri; F. Ciardelli; F. Signori; M. Bertoldo; M. Scatto; L. Andreotti; M. Sterner; "Materiali per l'imballaggio alimentare in chiave molecolare", Journal of Food Science and Nutrition, numero 2, aprile-giugno 2008, anno 37.

- F. Azzurri; P. Stagnaro; L. Conzatti; D. Cavallo; L. Repetto; M. Scatto; L. Andreotti; S. Coiai; e-Polymers 2011, no. 023, http://www.e-polymers.org/journal/papers/fazzurri_150311.pdf; "Flow induced crystallization of LDPE nanocomposites: A rheological and morphological characterization".

- M. Scatto; S. Coiai; L. Conzatti; F. Azzurri; L. Andreotti; E. Salmini; P. Stagnaro; A. Zanolin; F. Cicogna; E. Passaglia; Polymers for Advanced Technologies, "Optimization of organo-layered double hydroxide dispersion in LDPE-based nanocomposites", 2011, 22, 2285-2294.

- M. Scatto; E. Salmini; S. Castiello; M.B. Coltelli; L. Conzatti; P. Stagnaro; L. Andreotti; S. Bronco; Journal of Applied Polymer Science, "Plasticized and nanofilled Poly(Lactic Acid)- based cast films: effect of plasticizer and organoclay on processability and final properties, 2013, 127, 6, 4947-4956.

- M. Scatto; C. Rosato; F. Fellingine; A. Tinti; P. Scopece; M. Nacucchi; IEE Transaction on nanotechnology, "Active Polymer Nanocomposites: Application in Thermoplastic Polymers and in Polymer Foams", 2015, DOI : [10.1109/TNANO.2016.2578045](https://doi.org/10.1109/TNANO.2016.2578045).

- M. Scatto; F. De Pascalis, M. Nacucchi; R. Albertoni, NDT & E International Journal, "Quantitative characterization of low-density, high performance polymeric foams using high resolution X-ray computed tomography and laser confocal microscopy", 2016, 83, 123-133.

- M. Scatto; F. De Pascalis, M. Nacucchi; R. Albertoni; L. Capodici, AIP Publishing LLC, "Structural analysis of advanced polymeric foams by means of high resolution X-ray computed tomography", AIP Conf. Proc. 1749, 020009 (2016).

- M. Scatto, M. Sisani, "Active polymer nanocomposites: Application in thermoplastic polymers", AIP Conference Proceedings 1779, 040014 (2016); doi: <http://dx.doi.org/10.1063/1.4965505>

Thesis Supervisor

- Co-Supervisor for Bachelor Degree in Ingegneria dei Processi Industriali e dei Materiali during a thesis with title: "Studio, preparazione e caratterizzazione di nanocompositi polipropilenici a base di argille anioniche", 2012/2013, University of Padova
- Co-Supervisor for Bachelor Degree in Ingegneria dei Processi Industriali e dei Materiali during a thesis with title: "Produzione e caratterizzazione di materiali silicici ad elevate performance di isolamento elettrico", 2013/2014, University of Padova
- Co-Supervisor for Master Degree in Chimica e tecnologie sostenibili during a thesis with title: "Innovative tecniche di cross-linking per materiali di origine naturale e sintetica" 2014/2015, University Cà Foscari, Venice

Patents

- Three dimensional containers provided with relief decorations and a production method for such containers, G. Trani, M. Sterner, L. Andreotti, M. Scatto. Pub. No.: EP2093152B1

- Multilayer paper material method for its forming and method for obtaining three-dimensional containers, G. Trani, M. Sterner, L. Andreotti, M. Scatto. Pub. No.: US20110014433 A1

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In compliance with the Italian Legislative Decree no. 196 dated 30/06/2003, I hereby authorize the recipient of this document to use and process my personal details for the purpose of recruiting and selecting staff and I confirm to be informed of my rights in accordance to art. 7 of the above mentioned decree.

Marcos Scotti