Mario Polesello



Mario Polesello is an inorganic chemist with over 30 years of experience in the polyolefin industry. He has been an important contributor in all faces of the business from basic research and synthesis, to plant production.

Professional skills

- polymers, Ziegler-Natta catalysts, PP, LLDPE, HDPE, EPR elastomers, polyenes
- supported catalyst preparation and scale-up, Ziegler-Natta, and other single site catalysts
- activators, Bronsted and Lewis acid types for single-site catalysts

He provides a liaison between customers and other technical professionals to facilitate technology transfer. This also extends into communication between chemists and engineers to make the scale-up of processes more rapid.

Experience

SR. CATALYST CHEMIST, CATALYST SYSTEMS. DVT. | VERSALIS, FERRARA RESEARCH CENTER | JUL. 2015 TO PRESENT

- · Catalyst production & product devt. for LLDPE plant in Dunkerque, France.
- · Devt. of original catalyst and process for APAO rubbers.

CATALYST MANUFATURING MNGR.| POLIMERI EUROPA/VERSALIS, FERRARA CATALYST PLANTS | JAN. 2003 TO JUN. 2015

- Catalyst production for Priolo LLDPE plant (11 ton in 2011 max.) and Porto Torres HDPE (6 ton in 2004 max.).
- · Responsible for technical support at both polyethylene plant.

Technical support for original catalyst license to: Akzo Nobel, BASF, Albemarle, Grace.

PILOT PLANT DPT. MNGR.| ENICHEM ELASTOMERI, FERRARA RESEARCH CENTER | FEB. 1996 TO DEC. 2002

· Process studies on catayst systems for EP(d)M slurry process, commercial product optimization.

- · Technolgicas studies for a water-free finshing section on commercial process.
- · Technical support for process and application, PB production.

CHEMICAL ADVISOR | ENICHEM, FERRARA CATALYST PLANT | LUG. 1989 TO JAN. 1996

Responsible for technical support at Brindisi HDPE polyethylene plant. Preparation and testing of supported Ziegler-Natta catalysts Scale-up of catalysts from lab to Pilot Plant.

Technical responsible for catalyst production ad assistance for license agreement from Mitsubishi Kasei (JPN).

JR. CATALYST CHEMIST | ENICHEM, BOLGIANO LABORATORIES | JUN. 1986 TO JUN. 1989

Technical support for catalyst manufacturing activity at Paderno Dugnano (MI) Preparation and testing of supported Ziegler-Natta catalysts Supervised lab technicians. Scale-up of catalysts from lab to Pilot Plant

POSTDOCTORAL FELLOW | UNIVERSITY OF UDINE, ITALY | DEC. 1985 TO MAY 1986

Thermodynamic studies on stability of oxo-vanadium(V) complexes in non-acqueous solvents. Editing of scientific communications for Italian Chemical Society (SCI) meetings.

SGT. (RETIRED) | ITALIAN ARMY | ALPINE BRIGADE "JULIA" | DEC. 1984 TO NOV. 1985

Logistic Command, veterinary service.

POSTDOCTORAL FELLOW | UNIVERSITY OF PADUA, ITALY | MAR. 1984 TO DEC. 1984

Thermodynamic studies on stability of uranium(VI) and lanthanides complexes in non-acqueous solvents. Editing of scientific communications for Italian Chemical Society (SCI) meetings.

Awards and Recognitions

2008: Eni "Knowledge Owner", Proprietary polyolefins catalyst preparation.

2010: Eni Award for innovation: "New Ziegler-Natta catalysts, vanadium free, for low environment impact ethylene- alpha.olefins production.

Instruction

- · Degree in Chemistry, University of Padua, Italy, 1984
- · Postdoctoral School of Nuclear Chemistry, University of Padua, Italy, 1986

Language

· English: 3-B1 Intermedialte

Patent list

F. Masi, A. Moalli, R. Invernizzi; F. Menconi, C. Ferrero, S. Malquori, L. Barazzoni, M.Polesello

"Catalyst component and catalyst for the production of very high molecular weight polyolefins"

Patent number: IT1227054 — 09-09-1988

Also published as: EP0358264, US5070051, JP2759351, CA1334405

L. Luciani, R. Invernizzi, F. Masi, M. Pondrelli, M. Polesello

"Supported catalyst for the polymerization of ethylene and for the copolymerization of ethylene with alpha-olefins, its preparation and its use"

Patent number: IT1240611—16-03-1990

Also published as: US5278117, EP0446989, JP3223301, CA2038330, BR9101045

F. Masi, R. Santi, A. Sommazzi, A. Proto, <u>M. Polesello</u>, A. Vallieri

"Supported catalyst containing active titanium in the homo-, co-, and ter-polymerization of olefinunsatured compounds"

Patent number: ITMI20012710 — **20-12-2001** Also published as: WO03054034, US7449528, EP1456254, CA2470179, AU2002361996

F. Masi, M. Polesello, R. Fusco, A. Sommazzi, A. Proto, L. Meda, T. Pennati, G. Conti, F. Menconi

"Catalysts of the Ziegler-Natta type for the (co)polymerization of olefins with a high productivity"

Patent number: IT1397080 — 23-11-2009

Also published as: WO2011060958, EP2504366, US2012322959, JP2013511607, KR20120091366, CA2781196, AR046376, CN102725317

F. Masi, F. Menconi, G. Conti, <u>M. Polesello</u>, A. Zanellato

"Catalyst precursor and catalyst for the high-temperature (co)polymerization of alpha-olefin"

Patent number: IT1403278 — 20-12-2010

Also published as: WO2012084920, EP2655437, US2013317184, JP2013545864, ITMI20102332, CN103347906, <u>CA2821961</u>

G. Pampaloni, F. Renili, A. Sommazzi, F. Masi, F. Marchetti, M. Polesello

"Metal alkyl-arenes and processes for the preparation thereof "

Patent number: IT1403289 — 27-12-2010

Also published as: WO2012089652, EP2658860, US2013296592, MX2013007520, JP2014500300, ITMI20102400, CN103313994, <u>CA2822110</u>, EA201300755

F. Masi, A. Sommazzi, M. Polesello

"Catalizzatore solido per la (co)polimerizzazione delle α -olefine e procedimento per la sua preparazione"

Patent Number: IT2014MI01392-31-07-2014

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