

Prof Elio Santacesaria

Education

- High School Industrial Chemistry Diploma, 1961, Technical Institute “Ettore Molinari”
- Chemistry Degree (5 years course), 1966 University of Pavia, Dissertation on “The determination of sulphur trioxide in oleum with potentiometric method” under the guidance of the Nobel Prize Giulio Natta



Professional activities

- 1967-1968 Researcher at the SNAM Progetti (ENI Group)
- 1968-1970 Fellowship at the Polytechnic of Milano, Researches in the field of Hydrazine monopropellant.
- 1970-1986 Researcher of the National Council of Research, Researches on Propellants, Catalysis, Kinetics, Reactor design and simulation, Separation Science working in collaboration with Prof. Sergio Carrà
- 1986-today Full Professor of Industrial Chemistry at the University of Naples “FEDERICO II” Science Faculty
- 1980-1990 Founder and President of the Italian Group of Colloid and Interface Science of the Italian Chemical Society
- 1980-1985 Coordinator of the lines “Pigments, Zeolites, Surfactants” of the National Program of Research on “Fine Chemical I of CNR
- 1980-1986 1985-1990 Coordinator of the lines “Pigments, Zeolites, Surfactants” of the National Program of Research on “Fine Chemical II of CNR
- 1994-2008 Dean of the Industrial Chemistry Degree Course at the University of Naples
- 1999-2000 Organiser and Chairman of the XIII National Congress of Industrial Chemistry 20-23 June 1999
- 1999-2000 Member of the Scientific Council of the 5th World Surfactant Congress Florence May 29-June 2, 2000
- 1999-2000 Organiser and Chairman of the Third International Congress “Catalysis in Multiphase Reactors” CAMURE 3, Naples 29-31 May 2000
- 2000-2005 Expert Evaluator for the Marie Curie Fellowships
- 1992-2001 Member of the Directive Council of Industrial Chemistry Division of the Italian Chemical Society
- 2001-2003 Vice-President of the Industrial Chemistry Division of the Italian Chemical Society

- 2004-2009 President of the Industrial Chemistry Division of the Italian Chemical Society
- 2004-today Co-Chairman of the Annual Meetings of the joint Meetings DGMK-SCI and co-Editor of the Proceedings
- 2004-2005 Organiser and Chairman of the XVI National Congress of Industrial Chemistry 14-17 June 2005
- 2005-2006 Member of the Scientific Council of the XXII National Congress of the Italian Chemical Society, Florence 10-15 September 2006
- 2006-2007 Member of the Scientific Council for the 41th World Chemistry Congress IUPAC Turin, August 5-11
- 2005-2007 Member of the Scientific Council of the XXIII National Congress of the Italian Chemical Society, Sorrento 5-10 July 2009
- 2009-2012 Responsible partner of the EC Project COPIRIDE on Process Intensification
- 2010-2012 Past President of the Industrial Chemistry Division
- 2011 Awarded with the Gold Medal “Emanuele Paternò” by the Italian Chemical Society
- Nov. 2012 Retired from University
- 2013-Now CEO of the Eurochem Engineering srl

Moreover Prof. Elio Santacesaria has been invited to take part in **Conferences in Italy and in different countries** like Germany, India, China, Malesia, Mexico in particular on themes related to Biofuels and Biorefineries.

- He has presented lectures at many Congresses.
- He has organized Intensive courses on: Colloids and Interface Science, Surfactants, Microreactors, Formulations, Safety in Industry.
- He has participated as teacher in the above mentioned courses and in other ones on: Catalysis, Reactor design and Simulation, Kinetics and Mass transfer.
- He has been consultant or stipulated contracts with all the most important Italian chemistry companies and with some foreign Companies, such as: **ASER, AUSIMONT** (now **SOLVAY**), **Desmet-BALLESTRA, CAFFARO, CHIMECO, COBARR (Mossi & Ghisolfi Group)**, **CONSER SpA, DOW ITALIA, ENICHEM, EURON (ENI Group)**, **EUROTECNICA, KEMIS, GLARIS, FLORIS, LAMBERTI SpA, MONTEFIBRE, MYTHEN, NOVAMONT, PRESSINDUSTRIA, REDOIL, SCIENTIFIC DESIGN (USA), SISAS, SOLVAY ITALIA, TELESPAZIO, TYSSEN**.
- He has been funded for the research also by the Ministry of the research and University (MIUR), by the Ministry of Foreign Affairs for a collaboration Italia-Mexico, by the European Community - Project COPIRIDE, by the Ministry of Agriculture and by many private industries.
- He is the founder and has been the head of the Naples Industrial Chemistry Laboratory (NICL) and still collaborates as Consultant with this group. In this position he has hosted foreign

professionals (Chinese, Spanish, Mexican) sent by the respective governments to work in his laboratory and received many visitors from Korea, China, India and Australia.

Scientific Skill

- Kinetics, Catalysis, Reactor Design and Simulation, Separation Science
- Studied reactions and processes:
 - Biodiesel production, New uses for Glycerol,
 - Hydrogenation,
 - Oxidation (Starch, oleic acid),
 - Epoxidation, Alkylation (Cresols, BHT),
 - Alkoxylation,
 - Polyethoxylation, Polypropoxylation, Surfactant synthesis, Transesterification (Biodiesel and DMT),
 - Esterification, Enzymatic Reaction with immobilized enzymes,
 - Oxidative Dehydrogenation,
 - Yeast production, Hydrogen peroxide production, Special Lubricants, Radical Polymerization,
 - Polycondensation,
 - Catalysts preparation and Characterization

Brief CV of Prof. Elio Santacesaria

- Prof. Santacesaria has obtained the Chemistry Degree at the University of Pavia in 1966 with a Thesis developed under the guidance of the Nobel Prize Giulio Natta.
- He worked as researcher at the SNAM Progetti Co. in 1967. Then he obtained a fellowship at the Polytechnic of Milano where he worked until 1970 in collaboration with Prof. Luigi Giuffrè.
- In 1970 he became researcher of the CNR (National Council of Research) always working in the Polytechnic of Milano until 1986 in collaboration with Prof. Sergio Carrà. In this period he developed researches on the following fields: chemistry of propellants, catalysis, kinetics, reactors design and simulation, separation science.
- In the 1986 he wonned the chair of Industrial Chemistry of Science Faculty of the University of Naples "Federico II".
- He continued the research in almost all the mentioned research themes.
- Santacesaria had been the Coordinator of the research on "Colloid, Interphase and Surfactants" in the National Program of Research "Progetto Finalizzato Chimica Fine" I e II (10 years) giving a great contribution to the improvement of the research efforts in these fields.

- He has been the founder of GICI the Italian Group of Colloid and Interphase Science of the Italian Chemical Society and he has been the Coordinator of this Group for more than ten years (1985 - 1995).
- He is a member of the Italian Chemical Society SCI, of the Italian Association of Chemical Engineers (AIDIC), of the American Chemical Society (ACS) and of the International Association of Colloids and Interphase (IACIS) and of IUPAC.
- He had been organizer of many national and international Congresses, workshops and post-doctoral schools.
- He has been member of the Scientific Committee of the Industrial Chemistry Division of the Italian Chemical Society for 10 years.
- He has then been elected President of the Industrial Chemistry Division of the Italian Chemical Society for the period 2004-2006 renowned for the 2007-2009 and member of the Council as Past President in 2010-2012.
- He has been President of the Council of the Industrial Chemistry Degree Course from 1994 until 2009.
- He has collaborated with many Italian chemical industries.
- He has published more than 250 papers on qualified journals and is coauthor of more than 20 Patents.
- In 2011 **has been awarded by the Italian Chemical Society with the Gold Medal entitled to “Emanuele Paternò”** with the following motivation:

“Scienziato di levatura mondiale nello studio ed implementazione di processi chimici eco-sostenibili, particolarmente nei campi della produzione dei tensioattivi non ionici, dell’acqua ossigenata e più recentemente della produzione di biodiesel, il professor Santacesaria si è sempre caratterizzato per il suo stretto rapporto con numerose aziende chimiche italiane per le quali ha sviluppato nuovi processi o ne ha migliorato le tecnologie. Maestro di chimica industriale per i suoi studenti e collaboratori, ha continuamente svolto un’intensa e rilevante opera nella società chimica italiana, non solo nei campi scientifici a lui più vicini ma anche in altri, quali ad esempio il bando delle armi chimiche, in cui ha potuto far risaltare i propri valori etici”

“Scientist of world reputation level in the study and implementation of eco-sustainable chemical processes, in particular in the fields of the production of non-ionic surfactants, of the hydrogen peroxide and more recently of the biodiesel production, Prof. Elio Santacesaria is characterized by a strict relation with many Italian chemical companies developing for those companies new processes or improving their technologies. Master of Industrial Chemistry for his students and co-workers, he has continuously developed an intense and relevant activity for the Italian Chemical Society, not only in the scientific ambit close to his main activity but also in other fields such as the ban on chemical weapons, thus showing his ethical values”.

- In November 2012 he has retired from the University and started a new activity as responsible of a Spin Off Company named **Eurochem Engineering srl** located in Milano.

Prof. Elio Santacesaria - list of publications

- 237 V. Russo, R. Tesser, E. Santacesaria, and M. Di Serio; Kinetics of Propene Oxide Production via Hydrogen Peroxide with TS-1; *Ind. Eng. Chem. Res.* 2014, 53, 6274–6287
- 236 R. Vitiello, V. Russo, R. Turco, R. Tesser, M. Di Serio, E. Santacesaria; Glycerol chlorination in a gas liquid semibatch reactor: New catalysts for chlorohydrin production; *Chinese Journal of Catalysis* 35 (2014) 663–669
- 235 E. Santacesaria, R. Vitiello, R. Tesser, V. Russo, R. Turco, M. Di Serio; Chemical and Technical Aspects of the Synthesis of Chlorohydrins from Glycerol; Submitted for publication to *Industrial & Engineering Chemistry Research* (2014) 53, 8939-8962
- 234 R. Turco, R. Vitiello, V. Russo, R. Tesser, E. Santacesaria, M. Di Serio; Selective epoxidation of soybean oil with performic acid catalyzed by acidic ionic exchange resins; *Green Processing and Synthesis* 2 (5), 427-434 (2013)
- 233 R. Turco, J. Haber, I. Yuranov, V. Russo, E. Santacesaria, L. Kiwi-Minsker; Sintered metal fibers coated with transition metal oxides as structured catalysts for hydrogen peroxide decomposition; *Chemical Engineering and Processing: Process Intensification*; 73(2013)16-22
- 232 V. Russo, L. Protasova, R. Turco, M.H.J.M. de Croon, V. Hessel, E. Santacesaria; Hydrogen Peroxide Decomposition on Manganese Oxide Supported Catalyst: From Batch Reactor to Continuous Microreactor; *Ind. Eng. Chem. Res.* 2013, 52, 7668–7676
- 231 V. Russo, R. Tesser, E. Santacesaria, M. Di Serio; Chemical and Technical Aspects of Propene Oxide Production via Hydrogen Peroxide (HPPO Process); *Industrial & Engineering Chemistry Research* (2013) 52, 1168-1178
- 230 D. Sannino, V. Vaiano, P. Ciambelli, G. Carotenuto, M. Di Serio, E. Santacesaria; Enhanced performances of grafted VO_x on titania/silica for the selective photocatalytic oxidation of ethanol to acetaldehyde; *Catalysis Today* 209 (2013) 159– 163
- 229 G. Carotenuto, R. Tesser, M. Di Serio, E. Santacesaria; Bioethanol as feedstock for chemicals such as acetaldheyde, ethyl acetate and pure hydrogen; *Biomass Conv. Bioref.*(2013) 3:55-67
- 228 G. Carotenuto, A Kumar, J. Miller, A Mukasyan, E. Santacesaria, E.E. Wolf; Hydrogen production by ethanol decomposition and partial oxidation over copper/copper-chromite catalysts prepared by combustion synthesis; *Catalysis Today*: 203(2013)163-175
- 227 G. Carotenuto, R. Tesser, M. Di Serio, E. Santacesaria; Kinetic study of ethanol dehydrogenation to ethyl acetate promoted by a copper and copper chromite catalyst;

Catalysis Today: 203(2013)202-210

- 226 E. Salzano, A. Garcia Agreda, V. Russo, M. Di Serio; Safety Criteria for the Epoxydation of Soybean Oil in Fed-Batch Reactor; E. Santacesaria; Chemical Engineering Transaction 26 (2012) 39-44
- 225 R. Vitiello, A. Buonerba, R. Tesser, M. Di Serio, A. Grassi, E. Santacesaria; Use of Waste Materials for Biodiesel Production; DGMK Conference Proceedings October 8-10, 2012, Berlin, Germany
- 224 V Russo, R Tesser, M Di Serio, E Santacesaria; A New Kinetic Biphasic Approach to Biodiesel Process Intensification; DGMK Conference Proceedings October 8-10, 2012, Berlin, Germany
- 223 M. Di Serio, S. Mallardo, G. Carotenuto, R. Tesser, E. Santacesaria; Mg/Al hydrotalcite catalyst for biodiesel production in continuous packed bed reactors; Catalysis Today: 195(2012) (1)54-58
- 222 M. Di Serio, R. Turco, P. Pernice, A. Aronne, F. Sannino, E. Santacesaria; Valuation of Nb₂O₅-SiO₂ catalysts in soybean oil epoxidation; Catalysis Today: 192 (2012) (1), 112-116
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- 220 E. Santacesaria, R. Turco, M. Tortorelli, V. Russo, M. Di Serio, R. Tesser; Biodiesel process intensification: the role of the liquid-liquid interface area in the achievement of a complete conversion in few seconds; Green Process Synth. 1(2012) 181-189
- 219 E. Santacesaria, M. Di Serio, R. Tesser, R. Turco, M. Tortorelli, V. Russo; Biodiesel Process Intensification in a very simple microchannel device; Chemical Engineering and Processing: Process Intensification 52(2012)47-54
- 218 R. Tesser, M. Di Serio, R. Vitiello, V. Russo, E. Ranieri, E. Speranza, E. Santacesaria; Glycerol Chlorination in Gas-Liquid Semibatch Reactor: An Alternative Route for Chlorohydrins Production; Industrial & Engineering Chemistry Research 51 (2012) 8768-8776.
- 217 E. Santacesaria, A. Renken, V. Russo, R. Turco, R. Tesser, M. Di Serio; Biphasic Model Describing Soybean Oil Epoxidation with H₂O₂ in Continuous Reactors; Industrial & Engineering Chemistry Research 51 (2012) 8760-8767.
- 216 E. Santacesaria, R. Turco, M. Tortorelli, V. Russo, M. Di Serio, R. Tesser; Biodiesel Process Intensification by Using Static Mixers Tubular Reactors; Industrial & Engineering Chemistry Research 51 (2012) 8777-8787.

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- 214 E. Santacesaria, G. Carotenuto, R. Tesser, M. Di Serio; Ethanol Dehydrogenation to Ethyl Acetate by Using Copper and Copper Chromite Catalysts; *Chemical Engineering Journal* 179(2012)209-220
- 213 E. Santacesaria, M. Di Serio, R. Tesser, M. Tortorelli, R. Turco, V. Russo; A simple device to test biodiesel process intensification; *Chemical Engineering and Processing: Process Intensification*; 50(2011)1085-1094
- 212 E. Santacesaria; The proposal of a charter of the ethical principles of chemical sciences by the Italian Chemical Society; *La Chimica e L'Industria* 112, Sett. (2011)
- 211 E. Santacesaria, G. Carotenuto, R. Tesser, M. Di Serio; Study of the Performance of Vanadium Based Catalysts Prepared by Grafting in the Oxidative Dehydrogenation of Propane; *Catalysis – Innovative Applications in Petrochemistry and Refining*; DGMK Conference Proceedings October 4-6, 2011, Dresden, Germany
- 210 E. Santacesaria; R. Tesser; M. Di Serio; R. Turco; V. Russo; D. Verde; A biphasic model describing soybean oil epoxidation with H₂O₂ in a fed-batch reactor; *Chemical Engineering Journal* (2011), 173(1), 198-209.
- 209 E. Santacesaria, R. Tesser, M. Di Serio, V. Russo, R. Turco. A New Simple Microchannel Device to Test Process Intensification. *Industrial & Engineering Chemistry Research* (2011) 50, 2569-2575.
- 208 E. Santacesaria; G. Carotenuto; R. Tesser; M. Di Serio. Production of pure hydrogen by ethanol dehydrogenation. *Oil, Gas European Magazine* (Hamburg, Germany) (2011), 37(2), 99-102.
- 207 E. Santacesaria; G. Carotenuto; R. Tesser; M. Di Serio; Production of pure hydrogen by ethanol dehydrogenation. DGMK Conference Proceedings October 4-6, 2010, Berlin, Germany
- 206 E. Salzano, M. Di Serio, and E. Santacesaria. Emerging Risks in the Biodiesel Production by Transesterification of Virgin and Renewable Oil. *Energy Fuels*, 2010, 24 (11), pp 6103–6109
- 205 R. Tesser, M. Di Serio, L. Casale, G. Carotenuto and E. Santacesaria; Absorption of Water/Methanol Binary System on Ion-Exchange Resins; *The Canadian Journal of Chemical Engineering* 2010, 88 (6), pp 1044-1053
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- 202 Di Serio M., Tesser R., Casale L., A. D'Angelo, M. Trifuggi and E. Santacesaria; Heterogeneous Catalysis in Biodiesel Production: The Influence of Leaching. Topics in Catalysis (2010), 53 (11-12), 811-819
- 201 Tesser R., Casale L., Verde D., Di Serio M. and Santacesaria E. Kinetics and modeling of fatty acids esterification on acid exchange resins. Chemical Engineering Journal (2010), 157(2-3), 539-550
- 200 Santacesaria, E.; Tesser, R.; Di Serio, M.; Casale, L.; Verde, D. New process for producing epichlorohydrin via glycerol chlorination; Industrial & Engineering Chemistry Research (2010), 49(3), 964-970.
- 199 Santacesaria, E.; Di Serio, M.; Tesser, R.. New technologies in biodiesel production. Chimica e l'Industria (Milan, Italy) (2009), 91(5), 126-129
- 198 Santacesaria, Elio. Sustainable development and biorefineries. La Chimica e l'Industria (Milan, Italy) (2009), 91(5), 100-101
- 197 R. Tesser, L.Casale, D. Verde, M. Di Serio, E. Santacesaria “Kinetics of free fatty acids esterification: Batch and loop reactor modelling” Chemical Engineering Journal (2009), 154(1-3), 25-33.
- 196 Tesser, R.; Di Serio, M.; Santacesaria, E.; Methanol steam reforming: A comparison of different kinetics in the simulation of a packed bed reactor”. (2009); Chemical Engineering Journal (2009), 154(1-3), 69-75.
- 195 E. Santacesaria, R. Tesser, M. Di Serio, V. Russo; GPE-EPIC; 2nd International Congress on Green Process Engineering, 2nd European Process Intensification Conference; A new simple microchannel device to test process intensification; (2009)
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- 193 Santacesaria, E.; Di Serio, M.; Tesser, R.; Casale, L.; Verde, D.; Turco, R.; Bertola, A. ; Use of a Corrugated Plates Heat Exchanger Reactor for Obtaining Biodiesel with Very High Productivity Energy & Fuels (2009), 23(10), 5206-5212
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- 190 Santacesaria, E.; Di Serio, M.; Tesser, R.; Casale, L. New technologies in biodiesel production. *DGMK Tagungsbericht* (2008), 2008-3(Preprints of the DGMK-Conference "Future Feedstocks for Fuels and Chemicals", 2008), 7-18.
- 189 Di Serio, Martino; Tesser, Riccardo; Pengmei, Lu; Santacesaria, Elio. Heterogeneous Catalysts for Biodiesel Production. *Energy & Fuels* (2008), 22(1), 207-217.
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- 186 Santacesaria, Elio; Cozzolino, Mariangela; Di Serio, Martino; Tesser, Riccardo. Grafting alkoxides on the surface of oxides. A method for preparing new catalysts and supports. *Chimica e l'Industria* (Milan, Italy) (2007), 89(10), 112-119.
- 185 Di Serio, M.; Cozzolino, M.; Giordano, M.; Tesser, R.; Patrono, P.; Santacesaria, E.. From Homogeneous to Heterogeneous Catalysts in Biodiesel Production. *Industrial & Engineering Chemistry Research* (2007), 46(20), 6379-6384.
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