



Personal information

First name(s) / Surname(s) **CARMEN TEODOSIU**

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Nationality Romanian

Date of birth 18.09.1957

Gender Female; Married, 2 children

Researcher ID E-2693-2012

http://www.researchgate.net/profile/Carmen_Teodosiu

Occupational field Professor, Chem. Eng., M.Sc., Ph.D.; Specializations in Environmental Engineering and Management; PhD supervisor for the domains of *Environmental Engineering* (since 2009) and *Chemical Engineering* (since 2005).

Work experience 36 years

Dates February 2002 - present

Occupation or position held **Professor since 2002, PhD supervisor since 2005 for the Chemical Engineering domain, and PhD supervisor since 2009 for Environmental Engineering domain (12 PhD candidates elaborated their PhD thesis and received their doctoral titles under my supervision). Post-doc supervisor (5 post-doc researchers coordinated since 2012)**

Main activities and responsibilities Scientific research, didactic activities (bachelor studies, master studies, PhD studies, post-doc programmes); management activities, implemented at university, faculty or company level, expert in national scientific councils

Head of the Department Environmental Engineering and Management, Faculty of Chemical Engineering and Environmental Protection, "Gheorghe Asachi" Technical University of Iasi (TUIASI), (April 2016-present)

Vice Rector for scientific research at the "Gheorghe Asachi" Technical University of Iasi (March 2008 – March 28, 2016)

Member of the Administration Council of SC APAVITAL SA Iasi (Regional Water Operator), February 2016- present

Member of TUIASI Administration Council, (March 2008 – March 2016)

Member of TUIASI Senate, (March 2008 – April 2012)

Director of the Doctoral Schools of the "Gheorghe Asachi" Technical University of Iasi, (March 2008 – August 2012),

Coordinator of the Laboratory for Analysis and Control of Environmental Factors (LACMED) at the Faculty of Chemical Engineering and Environmental Protection, TUIASI (February 2013-present). LACMED has ISO17025 certification by RENAR (LI 1054/18.03.2015)

Member of the National Research Council/ Consiliul National al Cercetarii Stiintifice (CNCS), Ordinul MECS 3011/2015 (January 2015- September 2016)

Member of National Council for Certification of Titles, Diplomas, and University Certificates /Consiliul Național de Atestare a Titlurilor, Diplomelor și Certificatelor Universitare (CNATDCU), Environmental Engineering domain: Evaluation of doctoral degrees, titles and doctoral supervision: 2008 - 2010 and CNATDCU appeals committee (2012 - 2016)

Vice-Dean with education and international relations, Faculty of Chemical Engineering and Environmental Protection (2004-2008)

Name and address of employer "Gheorghe Asachi" Technical University of Iasi (TUIASI), Faculty of Chemical Engineering and Environmental Protection, Department of Environmental Engineering and Management

Type of business or sector University studies and scientific research

Dates **2000 - 2002**

Occupation or position held **Associate professor**

Main activities and responsibilities *Scientific research, didactic activities (bachelor studies, master studies, PhD studies), management activities*
Coordinator of the Erasmus/Socrates programmes at the Faculty of Chemical Engineering and Environmental Protection level (2000- January 2005)

Name and address of employer "Gheorghe Asachi" Technical University of Iasi, Faculty of Chemical Engineering and Environmental Protection, Department of Environmental Engineering and Management

Type of business or sector University studies and scientific research

Dates **1996 - 2000**

Occupation or position held **Lecturer**

Main activities and responsibilities *Scientific research, didactic activities*

Name and address of employer "Gheorghe Asachi" Technical University of Iasi, Faculty of Chemical Engineering

Type of business or sector University studies and scientific research

Dates **1990-1996**

Occupation or position held **Assistant professor**

Main activities and responsibilities *Scientific research, didactic activities*

Name and address of employer "Gheorghe Asachi" Technical University of Iasi, Faculty of Chemical Engineering

Type of business or sector University studies and scientific research

Dates **1989-1990**

Occupation or position held **Assistant professor** (temporary position)

Main activities and responsibilities *Scientific research, didactic activities*

Name and address of employer "Gheorghe Asachi" Technical University of Iasi, Faculty of Chemical Engineering

Type of business or sector University studies and scientific research

Dates **1981-1989**

Occupation or position held **Engineer**

Main activities and responsibilities - coordinating the implementation of new assortments and technologies in obtaining new products
- coordinating the export production

Name and address of employer S.C. TEROM S.A, Iasi

Type of business or sector Chemical Industry, fabrication of synthetic fibers and yarns, finishing products, exchange products and accessories, small installations and products

Education/Specializations

Dates **1990 – 1998**

Calification/diploma obtained Diploma of Doctor (PhD) in Chemistry

Disciplines/ professional competencies gained
Name and type of educational institution
PhD Thesis : *"Optimization of advanced wastewater treatment for the removal of non-biodegradable organic pollutants and suspended solids"*
"Gheorghe Asachi" Technical University of Iasi, Romania

<p>Dates</p> <p>Calification/diploma obtained</p> <p><i>Disciplines/ professional competencies gained</i></p> <p><i>Name and type of educational institution</i></p>	<p>1995-1996</p> <p>Master of Science in Environmental Science and Technology (<i>M.Sc. with distinction</i>)</p> <p>Grant and fellowship from Shell Research, The Netherlands</p> <p>Domain: Environmental Science and Technology</p> <p>International Institute for Hydraulics and Environmental Engineering, <i>UNESCO-IHE</i>, Delft, The Netherlands</p>
<p>Dates</p> <p>Calification/diploma obtained</p> <p><i>Disciplines/ professional competencies gained</i></p> <p><i>Name and type of educational institution</i></p>	<p>1994-1995</p> <p>International post-graduate course in Environmental Science and Technology (<i>Diploma with distinction</i>)</p> <p>Grant funded by the Netherlands Fellowship Programme</p> <p>Domain: <i>Environmental Science and Technology</i></p> <p>International Institute for Hydraulics and Environmental Engineering , <i>UNESCO-IHE</i>, Delft, The Netherlands</p>
<p>Dates</p> <p>Calification/diploma obtained</p> <p><i>Disciplines/ professional competencies gained</i></p> <p><i>Name and type of educational institution</i></p>	<p>1976-1981</p> <p>Chemical Engineer</p> <p>Chemical Engineering, Technology of organic substances</p> <p>Institutul Politehnic "Gh. Asachi" Iasi, Facultatea de Tehnologie Chimica (at present "Gheorghe Asachi" Technical University of Iasi)</p>

Personal skills and competences

Mother language (s) Romanian

Other language(s) (*) Common European Framework of Reference for Languages

Self-assessment	Understanding		Speaking		Writing
<i>European level (*)</i>	Listening	Reading	Spoken interaction	Spoken production	
English	C2 Experimented user				
French	C2 Experimented user	C2 Experimented user	C1 Experimented user	C1 Experimented user	C1 Experimented user
Italian	B2 Independent user	B2 Independent user	B1 Independent user	B1 Independent user	A2 Elementary user

Social skills and competences

- creativity, leadership, adaptive capacity to multicultural medias
- vision and management capacity
- negotiation and communication abilities
- motivation and teamwork abilities.

Organisational skills and competences

- ***A very good experience in project management of research and educational projects with national/international funding and in structural funded projects (European Social Fund).*** The majority of these projects are in the environmental field, with topics that are reflected by the research directions, publications and projects listed below.
- ***Abilities for the organisation and management of educational and research activities at the level of university and faculty*** (prof. Teodosiu has been elected/nominated for the functions of: Vice-Rector for Research (2008-March 2016), Head of the Department Environmental Engineering and Management, TUIASI, (April 2016-present), Vice-dean with education and international activities (2004-2008), Socrates-Erasmus faculty programme co-ordinator (2001-2005), Bachelor and Master of Science programmes co-ordinator: *Environmental Management* programme (2000- present), and *Environmental Management and Sustainable Energy, MSc in English, (since 2010)* etc.;
- ***Important contributions for the initiation, development and coordination of the environmental specializations*** at the level of B.Sc., M.Sc. and PhD, as well as for the

development of the research network in Environmental Engineering and Management in the most important universities in Romania and for collaboration with European universities active in the same fields;

- **Initiator and chairperson of the International Conference in Environmental Engineering and Management (ICEEM)** which in 2017 will be at its 9th edition (www.iceem.ro)

- **Coordinator of the Laboratory of Environmental Factors Analysis and Control (LACMED)**, Faculty of Chemical Engineering and Environmental Protection, since 2013. LACMED is certified by RENAR under ISO17025 certification (LI 1054)

Technical skills and Education (teaching activities- selection)

competences

- **Treatment technologies for drinking and industrial water** (courses, laboratories: 1997-2009), specialization Environmental Engineering and Protection in Industry, TUIASI;
- **Technologies and Biotechnologies for Wastewater Treatment** (courses, laboratories, project design:1998-present), BSc specialization Environmental Engineering and Protection in Industry, TUIASI;
- **Environmental Integrated Management** (courses and projects, 1999-present), *Master of Science* Specializations: Environmental Management (daily and ODL courses), Environmental Management and Sustainable Energy (English taught courses), Engineering of Non-Polluting Processes, TUIASI;
- **Management of research projects**, (courses and project work, 2005-present), Doctoral School of the Faculty of Chemical Engineering and Environmental Protection, TUIASI;
- **Management of environmental projects**, (courses and seminars, 2005-2008), Master of Science programme in Project Management, etc.

Research areas:

- Wastewater Treatment Processes, advanced wastewater treatment for recycling of industrial effluents (membrane processes, catalytic processes, advanced oxidation, adsorption);
- Water Treatment Processes for drinking or industrial use;
- Integrated Water Resources Management/ Integrated Environmental Management (water footprint, life cycle assessments, sustainability indicators)
- Environmental assessments and sustainable development; Pollution Prevention in industrial activities;
- Waste management and valorization, wastewater recycling and reuse in the context of circular economy
- Process Modeling and Optimization in chemical and environmental processes;
- Continuous Education and Curricular Development Programmes.

Scientific activity (publications and grants):

- Books and chapters published by Publishing Houses recognized at national/international level: **22**;
- Manuals edited locally (hand-outs for Master Programmes and Post-graduate courses): **9**;
- Articles published in international peer-reviewed journals (ISI ranked and included in international data bases): **136**
- Articles/Studies published full-text in international recognized conference volumes: **24**
- **841** citations of the published papers in international ISI ranked journals, **Hirsch index, H= 15** in the SCOPUS and ISI Web of Science databases, **H=19** in Google Scholar database)
- Patents: **7**;
- Conferences/key-note lectures presented at international/national recognized conferences: **121**
- PhD thesis: **1** ; MSc thesis: **1**;
- New technologies applied: **5**;
- Research and development projects based on international and national grants: 110 projects, out of which:**
 - **16 international grants** (Prof. Teodosiu acted as grant manager/TUIASI project coordinator: **11 projects**);

- **12 strategic projects** with structural funding POSDRU, approx. 5 million Euro/ project (in 1 acting as project manager, for 3 being the scientific director, for 6 being the responsible for TUIASI partner project activities, for 2 POSDRU strategic projects nominated as an Expert);
- **82 Research and development projects based on national grants:** projects gained in competitions such as CEEX, CNCISIS, PNCDI II and research contracts with industry/economic agents. In 30 of these projects Prof. Teodosiu have acted as project director, for other 35 projects acted as principal investigator/co-ordinated the research group.

Leader of the research group of *Water, Wastewater& Solid waste engineering and management*, consisting of 1 professor, 3 associate professors, 3 lecturers, 3 assistants, 3 post-doc researchers and 10 PhD students. This group has experience in research activities in the fields of Integrated Water Resources Management, Water and Wastewater treatment, Solid waste treatment and management, Environmental assessments, Pollution prevention, Life Cycle Assessment, Carbon and Water Footprinting, etc.

**Awards, distinctions,
Honorary degrees:**

1. **Doctor Honoris Causa** of the Pannonia University of Veszprem, Hungary, title received in June 2011
2. **Prizes (2) of Excellence in Research and „Gheorghe Asachi” Medals** for the coordination of the research group which attracted the highest funding for research for the periods 2011-2013 (1 prize awarded in November 2014) and 2013-2015 (1 prize awarded in November 2016), Universitatea Tehnica „Gheorghe Asachi” din Iasi
3. **Diploma with distinction** in Environmental Science and Technology, UNESCO-IHE Delft, The Netherlands, 1995
4. **Master of Science with distinction**, in Environmental Science and Technology, UNESCO-IHE Delft, The Netherlands, 1996
5. **Diploma and Silver Medal** at the 16-th Edition of INVENTIKA Salon for Patents and Innovation, 15-18 October Bucuresti, 2014 (Reactor for electrochemical industrial wastewater treatment)
6. **Diploma and Gold Medal** at the European Exhibition of Creativity and Innovation, EUROINVENT 2012, Iasi, Romania, Mai 2012.
7. **Diploma of Excellence for Innovative Research at European Exhibition of Creativity and Innovation**, EUROINVENT 2012, Iasi, Romania, Mai 2012
8. **Diploma and Inventive Merit Award for Excellence** in Technical Innovation offered by the National Inventics Institute, 2010
9. **“Leonardo da Vinci” Award** offered by the Romanian Inventors Forum, 2010
10. **The Green Environment Award** at II European Exhibition of Creativity and Innovation, Iasi, Romania, 7th-9th of May 2010,
11. **Honorary Diploma of the Romanian Chemical Society**, 2009
12. **Excellency Award and Gold Medal** at IX Specialized International Exhibition Inoivent, Chisinau, Moldova, 24th-27th November 2009,
13. **Excellency Award** at International Research Salon, Bacau, Romania, 19th-21st November 2009,
14. **Gold medal** at The 5th international Salon of Inventions and New Technologies NEW TIME, Sevastopol, Ukraine, 24th-26th September 2009, for the paper *Integrated method of ultrafiltration-ultrasonication for wastewater treatment*
15. **Silver Medal** at Exhibition of Inventions 37^{eme} Salon International des Inventions des Techniques et Produits Nouveaux Geneve, Switzerland, 1st – 5th April 2009, for the paper *Methodologie integree d'ultrafiltration-ultrasonication pour l'epuration des eaux usees*
16. **Excellency Award and Gold Medal** at 7th International Conference of Research, Innovation and Inventics PROINVENT 2009, ClujNapoca, Romania, 24th-27th March 2009,
17. **Silver Medal** at Le salon international de l'Innovation de la Recherche et des Nouvelles technologies, Brussels, Belgium, 13th-15th November 2008
18. **Gold Medal** at International Festival of Innovation of new technologies and creation Teslafest, Novi Sad, Serbia, 11-15 October 2008
19. **Excellency Award and Gold Medal** at the International Conference of Inventics – INVENTICA 2008, 12th edition, Iasi, Romania, 12th – 24th May 2008, for the paper *Ultrasonic activated and biosensors controlled filtration computerized systems for textile processes*

20. Diploma of Excellence at: Târgul Internațional Tehnic TEGA– All Invent – CERCETARE – INVENTICA – INOVARE, 2008, Timisoara

21. Diploma of Excellence and Bronze Medal at: Salonul International de Inventică, PRO INVENT, 2007, Cluj Napoca, organizata sub egida MEC, ANCD, Academia de Stiinte Tehnice din Romania

Other skills and competences External specialization stages:

- International Cooperation Programme on Environmental Management at Twente and Groningen Universities (The Netherlands), April 2000;
- Research/documentation stages at Delft University of Technology, within the *Socrates/CDI "Management of Chemical Investigations for Environmental Protection"* Programme, July 2001, June 2002, July 2003;
- Research stages at *International Institute for Industrial Environmental Economics, IIIIEE Lund, Sweden, 2003* („*Knowledge transfer and institutional capacity building for cleaner production in Romania*”) financed by the Swedish Institute Stockholm, Sweden;
- Intensive course on *Internal auditors for environmental management systems* organized by Societe Generale de Surveillance and the Chamber of Commerce and Industry, Iași, March 2004.
- Intensive course within the Workshop Waste Management, organized by the Department of Chemical Engineering and Environmental Protection, in collaboration with International Institute for Industrial Environment Economics, Lund, Sweden, April, 2004;
- Intensive course on „*Ecodesign and product innovation*”, organized by the Department of Chemical Engineering and Environmental Protection, in collaboration with International Institute for Industrial Environment Economics, Lund, Sweden, April, 2004;
- Intensive course within the Workshop „*Sustainable Tourism-Certification-Ecolabelling*”, organized by the Department of Chemical Engineering and Environmental Protection, in collaboration with International Institute for Industrial Environment Economics, Lund, Sweden, April, 2004;
- Post-graduate course, *Strategic Academic Management*, CETEX, TUIASI, 2010;
- Post-graduate course, *Educational Policies*, UEFISCDI Bucharest, 2011.

Visiting Professor stages:

- Visiting Professor at Delft University of Technology, The Netherlands, (2004, 2005, 2007, 2010);
- Visiting Professor at Technical University of Denmark, Denmark, (August 2004)
- Visiting Professor at University of Minho, Portugal, June 2006
- Visiting Professor at Technical University of Munchen, Germany, 2001; 2007
- Visiting Professor at University of Manchester, England, April-May 2007
- Visiting Professor at University of Pannonia, Veszprem, Ungaria, June 2008, 2011
- Visiting Professor at Vienna University of Technology, Austria: 2009, 2011, 2012, 2013, 2014, 2016
- Visiting Professor at Twente University, The Netherlands, April 2010
- Visiting professor at University of London and City University, Great Britain, May 2010
- Visiting professor at Politecnica University of Catalonia, Barcelona, Spain, 2010;
- Visiting professor at the Karlsruhe Institute of Technology, March 2011.
- Visiting professor at Politecnico di Torino, Italy, June 2015;
- Visiting professor at *Alma Mater Studiorum University of Bologna*, Italy, August-September 2015
- Visiting professor at *Universita Rovira I Virgili*, Tarragona, Spain, April 2016.

Expert in national/international commissions, Scientific referent:

- Expert, member of the National Council for Research (CNCS), Order of the Minister of Education and Research no. 3011/2015 (2015- present)
- Expert of the Romanian Ministry of Education, Research, Youth and Sport, CNATDCU committee (evaluation of doctoral degrees, titles and doctoral supervision) (2008 - 2010) and CNATDCU appeals committee – *Environmental Engineering Domain* (2012 - 2016);

- Expert evaluator (UEFISCDI) of the International research programme organized by the Academy of Science of Republic of Moldova (ASM) and International Project Center (CPI),
- Expert evaluator of the International research programme Romania –Norway, SEE, 2014, 2015, 2016 (UEFISCDI, ANCSI);
- Expert evaluator of the International research programme Romania - Switzerland (Swiss National Science Foundation, SNSF), 2012;
- Expert evaluator of the International research programme Romania - France (Agence National de Recherche), 2012, 2013 (UEFISCDI-ANR);
- Expert of the National Research Council (CNCSIS), for research programmes and research Centers evaluation (2005-2010);
- Member of the international committees for PhD awards, and Dr.h.c. awards
- Member of the National Register of Experts in University Education and Research, 2005-present;
- Member of the *Water Supply and Sanitation Technology Platform/ EC*, 2004- present ;
- Scientific reviewer for the ISI ranked journals: *Water Research, Journal of Cleaner Production, Desalination and Water Treatment, Science of Total Environment, Journal of Membrane Science, Environmental Modelling and Software, Reviews in Chemical Engineering, Environmental Monitoring and Assessment, Catalysis Today, Chemical Papers, Ecological Indicators, Water Resources Management, Environmental Engineering and Management Journal, Cellulose Chemistry and Technology, CLEAN: Soil, Air, Water, Environmental Science and Pollution Research, etc.*;
- Member of the Editorial Board of the *Environmental Engineering and Management Journal* (ISI ranked Journal, IF= 1.435), *Technical University of Iasi*, 2002- present;
- Member of the Editorial Board of the *Sustainable Production and Consumption Journal* (Elsevier Journal), 2015- present;
- Guest Editor of the ICEEM08 Special Issue of *Process Safety and Environmental Protection*, 2016, (Elsevier Journal, IF=2.551)
- Editor in Chief of the *Bulletin of the Polytechnic Institute of Iasi, "Gheorghe Asachi" Technical University*, 10 sections, (Index Copernicus, CNCSIS B+), 2008-present;
- Member of the Editorial Board of the *Journal of Engineering Studies and Research* ("Vasile Alecsandri" University of Bacau): Cod: JESR. ISSN:2068-7559 (2011-present);
- Member of the Editorial Board of the *Journal Procedia in Environmental Science, Engineering and Management (P-ESEM), SNSIM Romania*, ISSN: 2392 - 9537 (2014- present)
- Member of the Editorial Board of *Bulletin of the Polytechnic Institute of Iasi*, section: Chemistry and Chemical Engineering, 2004-2008.
- Expert evaluator in *Impact Assessment Studies in industry*, certificated by the Environmental Ministry (1997-1999).

Member of associations:

- Member of *International Water Association*, London, 1997- present
- Member of the *Water Environment Federation*, 2011-present
- Member of the *Chemical Engineers Society from Romania*, 1998- present
- Member of *ARA – Romanian Water Association* , 2007 - present
- Member of the *Chemistry Society from Romania*, 2008- present
- Member of *Intermediunet Association Romania*, 2003- present
- Member of the *Academic Organization of Environmental Engineering and Sustainable Development*, OAIMDD, Iași, 1997- present.

Professor Carmen TEODOSIU, MSc, PhD

January 2017