



Prof. Dr. Ing. Ioan Calinescu

Vice President – SOS Education – Foundation for a Better Future
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Education:

- **Ph.D. Engineering**, specialization "Organic Chemical Technology," 1996, Polytechnic University Bucharest, RO
- **Engineer**, specialization Organic Chemical Technology, 1980, Polytechnic University of Bucharest, Romania

Professional Experience:

- **Research:** Areas of focus include the use of microwaves, ultrasound, and accelerated electrons as techniques for enhancing physicochemical processes; environmental depollution techniques; biorefining and bioproducts; gas chromatographic analyses, etc.
- **Project Coordination:** Director or Responsible for more than 30 scientific research projects funded nationally or by the European Union.
- **Teaching Activity:**
 - Courses, seminars, laboratories, and projects in: organic chemical technology, catalysts, environmental depollution, biorefining, and biofuels.
 - PhD Thesis Adviser since 2008, with 22 PhD students already graduated and 6 currently in the program.
- **Managerial Activity:**
 - Head of Department (2004-2012), Dean (2012-2016) at Polytechnic University Bucharest.

Awards and Affiliations:

- Member of professional associations: AMPERE (Association for Microwave Power in Europe for Research and Education), Association of Chemical Engineers Romania, Romanian Chemical Society, InterMEDIU Bucharest.
- National Consultant for the Regional Workshop on Feasibility Study for Electron Beam Flue Gas Treatment organized by the International Atomic Agency (2005-2008).
- Honorary Member of the Association of Chemical Producers and Distributors in Romania (APDCR).
- Scientific Reviewer for over 30 ISI-indexed journals.
- Founding Member of the InterMEDIU Bucharest Information and Consultancy Center.
- Member of the Organizing Committee of the "Romanian International Conference on Chemistry and Chemical Engineering," 15th, 16th, 17th editions in Bucharest.
- President of the Organizing Committee of the "Romanian International Conference on Chemistry and Chemical Engineering," 18th, 19th editions in Bucharest.
- Member of the Technical Committee for Ampere 2017, 16th International Conference on Microwave and High Frequency Heating.
- Invited guest-editor for two special issues in prestigious journals:
 - "Electron Beam, Gamma-Ray, Microwave, and Ultrasound Applications in Chemical Synthesis and Material Processing" (Sensors).
 - "Ultrasonic and Microwave Assisted Applications in Synthesis, Processing and Extraction" (Sustainability).
- Visiting Professor at Jiaotong University, Xi'an, China, October 14-20, 2017.
- Invited (2005, 2006, 2007, 2008) to present papers at the "Research coordination meeting on Electron Beam treatment of organic pollutants contained in gaseous streams" organized by the International Atomic Energy Agency in Vienna, Beijing, Warsaw, and Sofia.
- Received a technical competence award at the "International Conference on optimization of electrical and electronic equipment," OPTIM 2002, for the paper "Non-thermal plasma processing for SO₂ and NO_x Removal."

Publications:

- **Books and Book Chapters:** 6 published in recognized publishers.
- **Articles in Recognized International Journals (RIS):** 131
- **Articles in Other International Journals (RIO):** 12
- **Articles in National Journals (Rns):** 1
- **Articles in Other National Journals (Rno):** 13
- **National Patents:** 18 granted and 4 pending approval.
- **Citations in International Journals:** 1271 (ISI Web of Science)
- **H-Index:** 16 (ISI Web of Science)

Professional Activity:

- **Teaching Activity:** 1982-1984 and 1987-2022 at the Polytechnic University Bucharest, from Assistant to Full Professor.
- **Industrial Activity:**
 - 1980-1982 at Electroaparataj – Bucharest, working with computer networks, databases, and machine language programming.
 - 1984-1987 at the Military Chemistry Research Center, Bucharest - Fine chemical synthesis and decontamination techniques.

Certifications:

- Completed the "Trainer" course, code COR 241205 (2010).