

Goran Jovanovic B.Sc., M.Sc., Ph.D. in Chemical Engineering, Associate Professor
Oregon State University, Chemical Engineering Department Corvallis, OR 97331, goran@che.orst.edu

Professional Preparation

Belgrade University	B. Sc. in Chem. Eng.	1966 - 1971
Oregon State University	M. Sc. in Chem. Eng.	1972 - 1974
Oregon State University	Ph. D. in Chem. Eng.	1976 - 1979

Appointments - Teaching Positions

Associate Professor	Oregon State University - Chem. Eng. Dept.	1995 - present
Visiting Professor	Oregon State University - Chem. Eng. Dept.	1992 - 1994
Associate Professor	Belgrade University - Chem. Eng. Dept.	1986 - 1992
Adjunct Professor	University of Nisus - Bio-Chem. Eng. Dept.	1990 - 1992
Assistant Professor	Belgrade University - Chem. Eng. Dept.	1980 - 1986
Res. Assist./Lecturer	Oregon State University - Chem. Eng. Dept.	1976 - 1979
Instructor	Belgrade University - Chem. Eng. Dept.	1974 - 1976

Appointments - Academic Administrative Positions

Member	Research Council OSU Faculty Senate	1999- present
Chair	Budget Committee, OSU Faculty Senate	1995 - 1997
Member	Undergraduate Committee, CHE-OSU	1993 - 1995
Member	Graduate Committee, CHE-OSU	1995 - 1999
President	Center for the Development of Belgrade University	1990 - 1991
Board Member	National Science and Technology (YU)	1990 - 1991
Associate Dean	Belgrade University School of Technology	1987 - 1991
Biomass Committee	National Academy of Sciences and Arts (YU)	1985 - 1992
Director of Research	Belgrade University School of Technology	1987 - 1991
Vice President	Council of the School of Technology	1985 - 1987
President	Committee for International Programs (YU)	1982 - 1986

Selected Research Publications:

- i Spasic, A.M., N.N. Djokovic, M.D. Babic, M.M. Marinko, G. N. Jovanovic, "Performance of Demulsions: Entrainment Problems in Solvent Extraction," *Chemical Engineering Science* (52) pp: 657-675 (1997)
- i Graham L.J., G.N. Jovanovic, "**Catalytic** Dechlorination of Chlorinated Hydrocarbons in a Magnetically Stabilized Fluidized Bed", *I. Chem. E., Proceedings of the 3rd World Congress on Particle Technology*, Brighton, England (1998)
- i Graham, L.J., G.N., Jovanovic, "Dechlorination of p-Chlorophenol on a **Pd/Fe Catalyst** in a MSFB; Implications for Sludge and Liquid remediation," *Chemical Engineering Science* (54) pp: 3085-3093 (1999)
- i Jovanovic, G.N., B. Paul, T. Plant, S. Toppinen, "A **Microscale Reactor** System for Dechlorination of Aromatic Chlorinated Compounds in Mixed Wastes; Theory, Modeling , Design, and Experiment", *IMRET 4 - 4th Int. Conf. on Microreaction Technology*, paper No: 111e, AIChE Spring National Meeting, Atlanta GA, March 5-9 (2000)
- i Jovanovic, G.N., N. Ploenpun, " A Model for Hydrogenation of Chlorinated Aromatics in a Laminated **Micro Reactor with Pd Catalyst**," submitted to *Chemical Engineering Science* (exp. time of publication - Dec., 2001)
- ii Bugarski, B., G. Vunjak-Novakovic, G.N. Jovanovic, "Bioreactor Systems Based on **Microencapsulated** Animal Cell Cultures," in *Fundamentals of Animal Cell Encapsulation and Immobilization*, (Editor - M.F.A. Goosen) CRC Press Inc. Boca Raton, Florida, Chapter 12 (1993)
- ii Sajc, L., Z.R. Jovanovic, B. Bugarski, G.N. Jovanovic, "Liquid Dispersion in a Magnetically Stabilized Bed (MSFB)," in *Mixed-Flow Hydrodynamics - Advances in Engineering Fluid Mechanics Series*, (Chapter 31), (Editor - N.P. Chermisinoff), Gulf Publishing Comp., p.p.713-740 (1996)

- ii Jovanovic, G.N., O. Levenspiel, "A New Design for a Multistage **Microreactor** System With (Non) Adiabatic Nozzle Valve," *2nd International Conference on Microreaction Technology*, AIChE Spring National Meeting, March 8-12, 1998 paper 12g, New Orleans, LA (1998)
- ii Plavsic, M., S. Tomic, L. Sajc, B. Bugarski, G. N. Jovanovic, "Structure Optimization of Polylactide **Microcapsules** for Controlled Drug Release", in *Advanced Materials and Processes* (Editor - D. P. Usokov), Materials Science Forum Vols. 282-283, p.p. 271-280 (1998)
- ii Jovanovic, G.N., "A **Microtechnology** Based Chemical Reactor System for Catalytic Dechlorination of Chlorinated Solvents," in *Microchemical Systems and Their Applications*, Invitation-only DARPA workshop, Washington DC, June 16-18 (1999)
- ii Plavsic, M., B. Bugarski, T. Kaludjerovic, G.N. Jovanovic, "Influence of Electrostatic Field on the Formation of Biodegradable **MicroBeads**", in *Methods of Entrapment, Immobilization, and Encapsulation*, Kluwer Academic Publishers, Netherlands (1999)

Synergistic Activities -Professional Affiliations

National Science and Technology Foundation (YU- 1990 - 1991); **National Academy of Sciences and Arts** (Member, Biomass Committee, YU - 1985 - 1995); **American Institute of Chemical Engineering** (1976 - present); **European Union of Chemical Engineering** (1985 - 1991); **Serbian Chemical Society** (1972 - present); **American Chemical Society** (2000 - present)

Scholastic Honors and Awards [(BU)=Belgrade University, (OSU)=Oregon State University]

Honors at Entrance (BU-1966); **Electronic Industry Award** (1967); **Academic Achievement Award** (BU - 1967, 1968, 1969, 1970); **BU Scholarship** (1968/69, 1969/70, 1970/71); **Fulbright Travel Grant** (1972 - 1974) **Teaching & Research Assistantship** (OSU -1972-74, 1976-79); **OSU Honor Roll Recognition** (1973); **L.L. Steward Faculty Development Award** (OSU -1996); **Austin Paul Engineering Faculty Award** (OSU -1997); **Outstanding Faculty Advisor Award** - WERC Consortium & Los Alamos N.L .(1999), **Elizabeth Ritchie Distinguished Professor Award** (2001)

Publications, Presentations, Research Projects

61 published refereed papers out of which **12** Monograph contributions. **32** not refereed publications, **25** invited lectures and seminars, over **80** presentations at scientific conferences, **41** research Projects, 1 book-translation from English into Serbo-Croatian.

Current Mentorship: **2** M.Sc. students; **6** Ph.D. students;

List of collaborators other than those on the publication list over the last 48 months:

Zoran Jovanovic, Reactor Development Program Scientist, Dow Chemical, Midland Michigan
 Manuk Colakyan, Group Manager Reaction System Technology, Union Carbide, Charleston WV
 Frank Chaplen, Oregon State University, Corvallis, OR
 Konstantin B. Konstantinov, Fermentation Manager, Bayer Corp., Berkeley, CA
 Phillip N. McFadden, Oregon State University, Corvallis, OR
 Brian K. Paul, Oregon State University, Corvallis, OR
 Kevin Drost, Pacific Northwest National Laboratory WA/OR
 William Warnes, Oregon State University, Corvallis, OR

Names of graduate advisors:

Dr. Octave Levenspiel, National Academy of Engineers (OSU professor emeritus)
 Dr. Thomas Fitzgerald, TRW, Rodendo Beach, California
 Dr. James Knudsen, OSU professor emeritus

Names of post-Doctoral Advisees (1996-2001)

Dr. Ljiljana Mojovic (at OSU); Dr. Sami Toppinen (Abo Academy - Finland); Dr. Janez Krajc (Univ. of Ljubljana, Slovenia); Dr. Branko Bugarski (Belgrade University)

Names of Graduate and post-graduate advisees:

Lisa Graham Enrique Arriola Brian C. Rhee Frantz Willers

Thana Sornchamni
Aleksandar Spasic
Joaquin Pinto
Mohamed Al-Mulhim

Sung Yoo
Zoran Jovanovic
Carlos Cruz
Khaled Al-Khalidi

Branko Bugarski
Witoon Kittidacha
Ljiljana Mojovic
Hans Qi

Lidija Sajc
Na Ploenpun
Brian M. Reed
Woo-Kul Lee