

Prof. Stoyan Kolev STOYANOV, D.Sc.



Prof. Stoyan Stoyanov was born on October 31, 1938, in Vlahovtzi, Bulgaria. His research area of scientific interests is Systems Engineering, Process Modelling Multicriteria Decision Global Optimization, Making; Optimization, Heuristic Optimization; Optimization under Uncertainties, Experimental Design; **Expert** Environmental Health, Energy Conservation through Process Integration, Environmental Protection; Computer Simulation of Pollutants Dissemination and Environmental Impact Assessment and Auditing.

Education and qualifications

1963	Diploma in Control Engineering, Technical University, Sofia, Bulgaria
1975	Ph.D., University of Chemical Technology and Metallurgy (UCTM), Sofia,
	Bulgaria
	Thesis: "Multicriteria Decision Making"
1990	D.Sc., UCTM, Sofia, Bulgaria
	Thesis: "Optimization Methods and Algorithms with Accelerated Convergence"

Academic positions

1963 – 1969	Lecturer at UCTM, Sofia, Dept. of Chemical Engineering
1970 – present	Lecturer at UCTM, Sofia, Dept. of Automation of Industry
1977 - 1990	Associate Professor at UCTM, Sofia
1990 – present	Full Professor at the UCTM, Sofia
2003 – present	Professor at the Technical University, Gabrovo

Previous and current administrative responsibilities

1979 - 1983	Vice-Dean on Education of a Faculty at UCTM, Sofia
1989 - 1992	Vice-Rector on International Co-operation and Postgraduate Study,
	UCTM, Sofia
1995 - 2005	Head of Ecology Centre at UCTM
1991 – present	Director of the European M.Sc. course in "Environmental Protection and
-	Sustainable Development"

Academic visitor

• Imperial College, Dept. of Chemical Engineering & Chemical Technology, London, UK (1978, 1980/81)



Invited lecturer

- Kitami Institute of Technology, Kitami, Hokkaido, Japan (1982, 1986)
- Technical Universities in: Merseburg, Leipzig, Hamburg-Harburg, Siegen, Berlin, Germany (1982, 1984, 1991, 1994, 1995, 1996, 1997, 1998, 1999, 2001, 2002, 2006);
- Moscow Institute of Chemical Technology, Russia (1982)
- Prague Institute of Chemical Technology, Czechoslovakia (1982)
- Helsinki University of Technology, Finland (1988)
- National Technical University of Athens, Greece (1989)
- University of Massachusetts at Amherst, USA (1990)
- Massachusetts Institute of Technology, Boston, USA (1990);
- University College Swansea, Great Britain (1991)
- Technical University of Denmark, Lyngby, Denmark (1992)
- Universitat Politecnica de Catalunya, Barcelona, Spain (1997)
- University of Durban-Westville, Durban, Republic of South Africa (2000)
- University of Natal, Durban, Republic of South Africa (2000)
- University of Split, Croatia, (2006, 2008)
- University of Limerick, Ireland (2009)

International projects participation (selected) *Education

1991 – 1993	Director of European M.Sc. course in Environmental Monitoring,
	Control and Health (UK, Belgium, Greece, Italy and Bulgaria)
1994 – present	Director of European M.Sc. course in Environmental Protection and
	Sustainable Development (UK, Belgium, Greece, Italy and Bulgaria)
1991 – 1997	Project Coordinator in CAD Systems in Process Engineering (UK,
	Germany, Greece Denmark and Bulgaria)
1995 – 1998	Project Coordinator in Energy Conservation through Process
	Integration (UK, Germany, Spain and Bulgaria)
2006 - 2008	Project Coordinator of the International LdV Project SK/06/B/F/PP-
	177443 in Vocational Education and Training for Quality of Life
	through E-Healthcare and Well-being (Finland, Sweden, Spain, Greece,
	Italy, Slovakia, Czech Republic, Romania and Bulgaria)

*Research

1994 – 1996	International Project on Optimization of Ferrite Production by Fuzzy
	Iterative Dynamic Programming (D and BG)
1995	International Project in Environmental Impact Assessment of MDK
	Pirdop Copper Smelter, Pirdop, Bulgaria
2003 - 2004	Project Coordinator of the International Project in Environmental
	Management of Port Areas, EMPA - BUL/017/02 (B and BG)
2003 - 2005	International Project in Awareness Raising about Environmental Health
	among Non-expert Advisers" AREHNA, (B, GR, F, BG)
2005 - 2007	International project on Reconstruction of Steel Industry in Bulgaria,
	Rumania, Croatia and Turkey, (UK, E)



Leader of national projects (selected)

1974	Intensification of Dimethyl Terephthalate Production, Yambol, Bulgaria
1979	Optimization on Nonwoven Textile, Gabrovo, Bulgaria
1984 - 1985	Computer Control System Development for High Pressure Polyethylene
	Production in "NEFTOCHIM" Ltd., Burgas, Bulgaria
1985	Optimization of Sulphur Carbon Production, Vratza, Bulgaria
1986	Optimization and Control of Urea Production, Vratza, Bulgaria
1987	Development of Expert System for Process Optimization, Sofia,
	Bulgaria
1996	Environmental Impact Assessment of a <i>Plant No 3</i> for Solid and Liquid
	Waste Incineration at Refinery "NEFTOCHIM" Ltd. Bourgas, Bulgaria
1999	Environmental Impact Assessment of a <i>Plant No 1</i> for Solid and Liquid
	Waste Incineration at Refinery "NEFTOCHIM" Ltd. Bourgas, Bulgaria
1999	Environmental Impact Assessment of a Plant for Solid Waste
	Incineration at Haskovo Town and Selection of the Building Site,
	Bulgaria
2004	Environmental Impact Assessment of "Umicor Med" Lim. Pirdop,
	Bulgaria
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Licences

1996 – present	Expert in	Environmental	Impact	Assessment	and	Auditing	at	the
	Ministry of	f Environment an	d Waters	s, Sofia, Bulg	aria			

Awards

1974	National award and silver medal for efficient research, Sofia, Bulgaria
1979	Bronze medal for software product development, Moscow, Russia
1993	Silver medal of the National Technical University of Athens, Greece

Membership

1982 – present	Member of the Union for Automation and Informatics, Bulgaria
1986 – present	Member of the Union of Scientists in Bulgaria
1985 – present	Member of the Scientific Council in Control Engineering
1999 – present	Member of the National Council for Industrial Energy Efficiency
1999 – present	Member of the Balkan Environmental Association (B.En.A)
1999 – present	Member of the National Society of Environment Experts

Publications:

- 27 books (20 in Bulgarian, 5 in English and 2 in Russian language); 257 papers and other publications in Bulgarian, Russian, English and German languages.
- More significant books:
 - **S. Stoyanov**, Optimization Methods and Algorithms. Sofia, Technica, 1990, (in Bulgarian)
 - **S. Stoyanov**, Customer Satisfaction and Decision Making in Healthcare Organizations, UCTM, Sofia, 2008. (in English)



- S. Stoyanov, Process Optimization. Sofia, Technica, 1983 and 1993, (Bulgarian)
- L. N. Skopalik, **S. Stoyanov**, E. Skopalik. Satisfaction Management, V. Aprilov, Gabrovo, 2004, (in English)
- I. Vuchkov, **S. Stoyanov**, V, Tzochev, N. Kozarev, Statistical methods, Novi Znanija, Sofia, 2002, (in Bulgarian)

• Books editor:

- B. Nath, Y. Pelovski, S. K. Stoyanov (Eds.), Sustainable Solid Waste Management in the Southern Black Sea Region, NATO Science Series, Vol. 75, Klwer Academic Publishers, 2000, (in English)
- L. Hens, **S. Stoyanov**, Ch. Boyadjiev (Eds.), Environmental Management for Port Areas, BUL/017/02, Sofia, 2004, (in English)

• Chapters in books:

- **S. Stoyanov**, E. Terlemezian, *Mobility and Health in Bulgaria*, *Chapter in the book* "Environmental Health Impacts of Transport and Mobility", Ed. P. Nicolopoulou Stamati, L. Hens, C. V. Howard, Springer, 21, 2005, 179-198.
- **S. Stoyanov**, E. Terlemesian, *Environment and Reproductive Health in Bulgaria, Chapter in the book* "*Reproductive Health and the Environment*", Ed. P. Nicolopoulou Stamati, L. Hens, C. V. Howard, Springer, 22, 2007, 353-372.
- E. Terlemesian, **S. Stoyanov**, *Congenital Anomalies in Bulgaria*, *Chapter in the book* "*Reproductive Health and the Environment*", Ed. P. Nicolopoulou Stamati, L. Hens, C. V. Howard, Springer, 23, 2007, 340-357.

The scientific and research activities of Prof. S. Stoyanov confirms him as a leading scientist in the area of process modeling and optimization.

Let wish him health and creative power for new achievements.

Editorial board of Int. J. Bioautomation