

## BIOGRAPHIES of PARTICIPANTS

**Angheluta Vadineanu** has been graduated in Biology (1972) and got the Ph.D degree (1980) in Ecology at the University of Bucharest. He is University Professor and Head of Department of Systems Ecology and Sustainability (UNIBUC-ECO) as well as UNESCO-Cousteau Chair Holder in Ecotechnie at the same University. He has a wide and rich experience of teaching and training of human resources in the field of systems ecology and sustainability as well as of knowledge development and use concerning both Natural Capital and Socio-Economic System. His research and management activities have been focused more than 25 years on: the dynamics of the structure and productivity of Lower Danube River Wetlands System, including Razim -Sinoe lagoons system; the identification and management of the Romanian ecological network; structure and functioning of benthic communities; population dynamics and energy budget; the assessment of energy flow and biogeochemical cycles in wetlands and terrestrial ecosystems and more recently on the social and economic valuation of Natural Capital as well as on the assessment of Ecological Footprint for local or national Socio-Economic Systems. He has published alone or as co-author, over hundred and twenty scientific papers and eight books. He was ( e.g Environmental Advisory Committee for European Bank for Reconstruction and Development 1992/1994) or is member of several international scientific and advisory bodies (e.g. Scientific Committee of the European Center for Nature Conservation and IUCN Commission on Ecosystem Management. He is also coordinating the National Network for Long Term Ecological Research.

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**Angel Pérez-Ruzafa** was born in Murcia (Spain) in 1958. Graduate studies in Biology by the University of Murcia (Spain) and the University of La Laguna (Canary islands-Spain). PhD degree at the University of Murcia on the Ecology of the benthic assemblages of the Mar Menor lagoon. Professor Titular of Ecology and Head of the research group on *Ecology and Management of Coastal Marine Ecosystems* at the Department of Ecology and Hydrology of the Faculty of Biology at the University of Murcia. Research topics and scientific publications (more than 40 in peer reviewed journals and book chapters) on coastal lagoons ecology (mainly in the Mar Menor lagoon), environmental impact, biological indicators, marine protected areas and on the dynamics of populations and ecology of echinoderms and benthic fishes. Research has been developed through national and international projects at Galapagos islands, Atlantic archipelagos (Azores, Madeira, Canary islands and Cabo Verde), Antarctic and the Mediterranean. He has been Vice-chancellor of University Extension and International Relationships of the University of Murcia. He collaborate as scientific assessor and in several environmental management and research projects with national and local administrations as the *Consejería de Agricultura, Agua y Medio Ambiente* of the *Region de Murcia* Government, or the *Dirección General de Puertos y Costas* of the Spanish *Ministerio de Fomento*.

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**Aysegül Tanik** is Full Professor at Istanbul Technical University (ITU) in Turkey. She obtained her B.Sc.degree in Chemical Engineering (1981) and M.Sc. Degree (1984) in Environmental Engineering from Bogazici University, Istanbul. Her Ph.D is in Environmental Engineering (1991) and she got her degree from ITU, Department of Environmental Engineering where she has been a member of teaching staff since 1992. She has become Full Professor in 2002. She has worked as a Project and Research Engineer in various Contracting Firms dealing with treatment of water and wastewater within years 1984-1992. Her current fields of interest are; determination and management of diffuse sources of pollutants, water quality management, water quality modeling, and watershed management. She has recently been lecturing Environmental Impact Assessment, Marine Pollution and its Control and Environmental Law to undergraduate Environmental Engineering students, and Diffuse Pollution, Integrated Watershed Management and Fate and

Transport of Pollutants in the Environment to the graduate students. She has supervised numerous M.Sc. theses in the field of Environmental Engineering. She is a member of International Water Association (IWA), Turkish National Committee of Water Pollution Control (SKATMK), Chamber of Civil Engineers. She has almost 20 papers appearing in international SCI journals, more than 20 papers in the selected international proceedings besides many national conference papers. She has been one of the co-authors of the book chapters of NATO Science Series 2. Environmental Security Vol. 74 (2000) on Transboundary Water Resources in the Balkans: Initiating a Sustainable Co-operative Network, of IWA publishing of Water, Sanitation and Health, WHO Water Series (2000), and of the 6th International HCH and Pesticides Forum Book (2001) by Plant Protection Institute, Poland. She has been taking part in 2 NATO -CCMS projects, one in NATO CR together with many national projects supported by either ITU or the Scientific and Technical Research Council of Turkey.

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**Boris Chubarenko** was born in 1961 in Russia. He graduated Moscow Institute for Physics and Technology with M.Sc. in mechanics in 1994, and defended his Ph.D thesis on numerical methods of wave dynamics in non-linear media in 1987. He was educated in marine environmental pollution prevention in Sweden (1994) and environmental water management, monitoring and modelling in Denmark (1997). Since 1987 he worked at P.P. Shirshov Institute of Oceanology of Russian Academy of Sciences (headed by Dr. V. Paka). His present position in the Institute is a Head of Laboratory for Coastal Systems Study. During a period of 1990-1992 he was employed as a Head of Ecological Laboratory in the Kaliningrad State University. As a guest-scientist he worked at the Department of Environmental Flows (headed by professor Kolumban Hutter) in Darmstadt Technical University (Germany), and participated in theoretical and observational projects on physical limnology, having studied Lake Constance. Presently he gives lectures in modelling of coastal water systems in Kaliningrad State University and in mathematics in high school. Research interest focuses at physical coastal oceanography, integrative studies of lagoons, estuaries and sandy coasts, and application of numerical models in environmental impact assessment, environmental monitoring and operational oceanography. His present activity is devoted to integrative studies of the Baltic lagoons (Vistula, Curonian, Darss-Zingst Bodden Chain estuarine lagoons) and of the Baltic coastal zone including monitoring and environmental impact assessment of port developments. He has an experience in preparation and co-ordination of international projects funded by European funds (1994 – present time). His papers were published in WWF Baltic Bulletin, Meteorology and Hydrology, Oceanological Studies, Ann. Geophysicae, Int. J. Ecological Modelling and Systems Ecology, Baltica, J. of Environmental and Chemical Physics, J. of Limnology, ICES Research Report.

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**Eugeniusz Andrulowicz** is a senior scientist and project leader at the Sea Fisheries Institute, Gdynia, Poland. His research field covers marine chemistry and marine ecology and underwater exploration. He is now involved in research and assessments of the biological effects of anthropogenic activities, ecosystem health studies and ecosystem-based management. He earned an M.Sc. in Chemistry from Gdansk University and a Ph.D. in Natural Sciences from the Agriculture Academy in Szczecin. For 20 years he worked at the Institute of Meteorology and Water Management-Maritime Branch in Gdynia as a marine chemist, where he conducted field and laboratory measurements on salinity, oxygen, nutrients, trace metals, chlorinated hydrocarbons and petroleum hydrocarbons. He is the author of approximately 50 papers in peer-reviewed journals and of more than 100 scientific, technical and popular publications. Dr Eugeniusz Andrulowicz has been involved in various international governmental organizations, such as ICES, HELCOM, SCOR, IMO-MEPC and GIWA, and in non-governmental organizations, including WWF, CBO (Conference of the Baltic Oceanographers) and BMB (Baltic Marine Biologists). He was a member of the ICES Advisory Committee on Marine Pollution, the vice-chairman of the HELCOM Environment Committee, the vice-chairman of the HELCOM Working Group on Monitoring and Assessments, the co-chairman of the HELCOM Working Group on Management Plans for Coastal Lagoons and Wetlands and member of the Editorial Board of the German Journal of Hydrography. He is now co-chairman of GIWA Baltic Sea Sub-Region No. 17, a member of the Advisory Committee on the Marine Environment, a member of the ICES Advisory Committee on Ecosystems and a member of the ICES Marine Habitat Committee.

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**I. Ethem Gönenç** is an internationally recognized scientist who is considered a visionary. He is the Director of the NATO-CCMS Pilot Study on "Ecosystem Modelling of Coastal Lagoons for Sustainable Management" which was initiated in 1995. He brought together expert scientists from 15 countries and was the catalyst behind the development of this manuscript. Prof. Gonenc has done pioneering work in the field of environmental science and technology. He has worked on master plans and feasibility studies in his home country of Turkey, including those for Istanbul, a mega-metropolis of 12 million people, and Ankara, the capital. He was responsible for planning and development of the innovative approach to waste water management in Istanbul. He was a recipient of NATO and World Health Organization fellowships. At Denmark Technical University he developed a new model on biofilm kinetics with Paul Harremoës. He has received the Danish Royalty Award. Prof. Gonenc has published extensively in prime international journals and has presented at numerous world's most recognized conferences and congresses on a wide range of environmental management topics including sustainable watershed management, environmental policy, environmental impact assessment, ecological modelling, diffusion in environment, biofilm kinetics, and nitrification / denitrification. Gonenc has lead several multidisciplinary research projects. Gonenc received a Ph.D. from Istanbul Technical University where he worked for 28 years. Although recently retired from the University, he continues to be dedicated to implementation of science based environmental management practices within the context of sustained use and development of natural resources on an international basis. Prof. Gonenc is currently the CEO of IGEM Research and Consulting Company in Istanbul, Turkey. Contact: IGEM Research&Consulting, Kaptan Arif Sok. 12/9, Suadiye 34740, Istanbul, Turkey; tel: +90 216 3736071; fax: +90 216 4456364; e-mail: [iegonenc@igemconsulting.com](mailto:iegonenc@igemconsulting.com)

**Javier Gilabert** is Associate Professor at the Technical University of Cartagena in Spain. He was born in 1958 and speaks Spanish and English. He obtained his Ms.C. in marine biology at the University of Balearic Islands (1985) and Ph.D. in ecology at the University of Murcia (1992). He worked for the Remote Sensing Department of Indra Space, an Sapin based international IT company, and was a EU Marie Curie postdoc fellow for two years at Plymouth Marine Laboratory (U.K.). He has been author of more than 20 scientific publications and has been reviewer for several aquatic ecology journals. His current research interest is focused on plankton dynamics from an interdisciplinary point of view: from physical (hydrodynamics) to chemical (nutrient diffusion) to biological processes (uptake of nutrients by phytoplankton and grazing impact of zooplankton). He has been studying the dynamics of the planktonic size structure in different environments in order to incorporate the mechanisms controlling the planktonic size structure into the ecosystem models. Projects concerning these aspects have been carried out at several spatial scales: from coastal lagoons – the Mar Menor (Spain) – to the Mediterranean Sea to the Atlantic Ocean (90° latitudinal transects). He is also currently involved in the study of regional harmful algae blooms.

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**John P. Wolflin** teamed up with I. Ethem Gonenc in 1995 as the Co-Director of the NATO sponsored Pilot Study Ecosystem Modelling of Coastal Lagoons for Sustainable Management. He is one of the principal editors of this manuscript developed by the scientific experts affiliated with the Pilot Study. Wolflin is a tenured scientist with over 30 years of experience in natural resource management and collateral duties as an educator. Currently, he is the Supervisor of the U.S. Fish and Wildlife Service Chesapeake Bay Office in Maryland. Wolflin oversees conservation programs on wetlands regulation and restoration, Federal navigation and highway projects, environmental contaminant assessment and remediation, endangered and invasive species, and application of conservation provisions of other Federal environmental laws and international treaties that focus on migratory birds and interjurisdictional fisheries. He has lectured

on sustained use and development of natural resources at universities in the U.S. and abroad. At Johns Hopkins University he taught Natural Resources - Policy and Conservation (1994 -1999). He has authored numerous papers on resource management and made presentations at many conferences including the International Wetlands Research Bureau, Wetlands International, and the European Union (US Information Agency World Net Broadcast). Wolflin began his career as a field scientist and is recognized for work on complex and controversial land and water resource developments. He chaired an interdisciplinary team that developed a comprehensive management strategy for fish and wildlife, commercial navigation, and recreational use of the Upper Mississippi River. Wolflin completed the Department of the Interior's Executive Management Development Program. He also has Supervised the Service's Idaho Office and has worked with the Philippine Bureau of Fisheries and Aquatic Resources as a U.S. Peace Corps volunteer. Wolflin has a Bachelor of Science in biology and behavior science and a Master of Science in biology with special emphasis on coastal ecology.  
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**Rosemarie C. Russo** is the Director of the Ecosystems Research Division of the National Exposure Research Laboratory, Office of Research and Development, U.S. Environmental Protection Agency, in Athens, Georgia USA. She received her B.S. degree in Chemistry from the University of Minnesota-Duluth in 1964 and her Ph.D. degree in Inorganic Chemistry from the University of New Hampshire in 1972. Her research interests are aquatic toxicology, ammonia and nitrite toxicity to aquatic organisms, and water quality criteria. Research conducted in the EPA laboratory in Athens focuses on identification and quantification of transformation processes affecting behavior of contaminants in environmental systems and the development of mathematical models to assess the response of aquatic systems to stresses from natural and anthropogenic sources. Field and laboratory studies support process research, model development, testing and validation, and characterize variability and prediction uncertainty. She has authored or co-authored numerous papers on toxicity of ammonia to fishes and national water quality criteria documents. She has worked on international environmental research projects in Russia, Ukraine, Poland, Estonia, Lithuania, and China.

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**Vladimir G. Koutitonsky** is a coastal physical oceanographer engaged in fundamental and applied research at the *Institut des Sciences de la Mer de Rimouski (ISMER)*, Université du Québec à Rimouski, Québec, Canada. He holds a 1965 B.Sc. in Physics and Chemistry from the American university in Cairo, Egypt, a 1973 M.Sc. in physical oceanography from McGill University, Montréal Canada and a 1985 Ph.D. in coastal oceanography from the Marine Sciences Research centre, State University of New York at Stony Brook, USA. His research focuses on *Coastal Environmental hydraulics: Modelling and field observations* as described in some 25 publications in prime international journals and some 40 research and environmental impact reports. Most of his fundamental research deals with mesoscale processes occurring at inertial, tidal and synoptic frequencies in stratified coastal waters, mostly in the St-Lawrence estuary. His practical expertise includes planning, supervising and carrying out environmental impact studies involving field measurements and numerical models (the MIKE21 and MIKE3 systems, [www.dhi.dk](http://www.dhi.dk)) to study water circulation and quality, eutrophication, aquaculture site selection, transport of particles (sediments, larvae, oil spills, and pollutants), and refraction of waves in the coastal zone, estuaries, lagoons and bays. Finally, Dr. Koutitonsky teaches coastal

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