New Chairmen in PICES

Governing Council

At PICES-2010, Dr. Lev Bocharov (Russia) was elected Chairman and Dr. Laura Richard (Canada) was elected Vice-Chairman of PICES. PICES is grateful to Dr. Tokio Wada (Japan) for this dedicated service as Chairman of the Organization since October 2006. He will continue serving PICES in the advisory capacity as Past-Chairman.

Lev Bocharov was born on August 20, 1950, in Crimea (Russia). In 1972, he graduated with honours from the Far Eastern State University with a degree in "physics and mathematical support of automatic control systems". He had completed his post-graduate studies in 1978 under the supervision of academician Yury Zolotov, receiving his Ph.D. in Mathematics. In 1994, Lev defended his thesis on "*The information technology of short-term fishery forecasting*" and became a Doctor of Technical Science. In 1995, he was elected as an associate member of the Russian Academy of Natural Sciences, and became professor and a full member of that Academy in 2010. Lev is one of the founders and leading experts in a new research field on complex analysis and forecasting of marine ecosystems. He has authored more than 120 scientific publications, including research papers and books. His scientific interests include the use of satellite and aircraft data in marine studies, development of databases, simulation studies of marine ecosystems and fishery forecasting.

For more than 30 years, Lev has led major research activities at TINRO-Centre. He started as Head of the Laboratory for Mathematical Methods of Research in 1979, became Deputy Director for Science in 1983, and Director-General in 1997. Lev also serves as Chairman of the Board of Directors for the Association of the Far Eastern Fisheries Scientific Organizations, and Chairman of the Science and Publishing Boards of TINRO-Centre, member of the "Izvestiya TINRO" (TINRO Proceedings) editorial board and member of the editorial boards for the journals "Fisheries" and "Fisheries Issues".

Lev is a person with wide and progressive views, and is known as a man of principles in issues on the rational use and management of Far Eastern biological resources based on state interests and federal legislation. The successful and fruitful activities of Lev as a scientist and manager stems from his long experience in the field of fisheries, and high scientific and professional skills. It was Lev who initiated the transfer of 10 research vessels to TINRO-Centre, which turned out to be a break-through in organizing marine research activities. Ten years ago, he commenced the reorganization of the planning and management of fishery research studies in the Russian Far East, and since then, all these activities have been based on multi-purpose research programs.

Lev uses his scientific knowledge and management expertise for the development of scientific cooperation in the North Pacific. He has been involved in PICES as a member of the Technical Committee on Data Exchange (TCODE) since 1994. He has been representing Russia as a national delegate on the PICES Governing Council since 1999. Under his leadership, TINRO-Centre hosted two PICES Annual Meetings in Vladivostok: in 1999 and 2005. Lev has served as Vice-Chairman of PICES since 2006, and was elected Chairman of PICES in 2010.

Lev has received numerous awards for his outstanding scientific and management achievements in fisheries, including the medal "For Services to the Country", the medal "For Services to the Development of Russian Fisheries" and many others.

Arts are among the numerous interests of Lev. His knowledge of Russian paintings, Japanese graphic arts and netsuke are as good as that of a professional art expert. Following TINRO's motto "*A sound mind is a sound body*", Lev is keen on sports, particularly basketball, and actively participates in friendly competitions between the TINRO-Centre team and other domestic and foreign teams.

In his private life, Lev is a devoted and happy family man. His wife Irina provides support to her beloved husband and is proud of him. They have a daughter Ksenia and two grandsons: 7 year-old Gleb and 2 month-old Ruslan.

Laura was born in Halifax, Nova Scotia, on the east coast of Canada. As a child, she spent her summers around water – swimming in lakes and beachcombing along the seashore. Laura became fascinated by marine life and, by the age of 12, she decided to make marine biology her career. She completed a B.Sc. in Biology from Dalhousie University in 1976, winning the Governor General's Gold Medal for the highest marks in her graduating class. She then went on to complete M.Sc. and Ph.D. degrees in Zoology from the University of British Columbia. Laura managed to combine her love of beaches with science – her Ph.D. research focused on a sandy beach amphipod and its beetle predator. All the action was nocturnal, and she became known locally for wandering along beaches at night.

Laura was fortunate to find a post-doctoral position at the Pacific Biological Station in Nanaimo, British Columbia, where she was hired by Dr. Glen Jamieson (former PICES Marine Environmental Quality Chairman) to work on Dungeness crabs. A year later, in 1983, Laura started her career as a groundfish scientist for Fisheries and Oceans Canada at the Pacific Biological Station. She was tasked with conducting assessments of various species of rockfish (*Sebastes*), groundfish and salmon. Much of her research focused on the development of quantitative methods for stock assessment. In 1995, she received the Deputy Minister's Commendation Award for her scientific support to Pacific groundfish management plans.

In 1998, Laura shifted to managing research when she was appointed as the Acting Regional Director Science for Fisheries and Oceans Canada in British Columbia and the Yukon. She was confirmed as Regional Director Science in 2002 and continues to hold that position.

Laura has been a Canadian delegate to the PICES Governing Council and a member of the Fisheries Science Committee and the Finance and Administration Committee (F&A) since 2000. She held two terms as F&A Chair (2004 to 2008) and participated in several study groups. She also plays lead roles in other international organizations. Since 2001, she has been the Chair or Co-Chair of the Committee on Scientific Co-operation under the Pacific Salmon Commission (Chair/Co-Chair alternates annually between Canada and the United States). In addition, since 2005, she has been Canada's lead Commissioner at the International Pacific Halibut Commission. In that role, she works with different harvest sectors to apply science advice to make decisions on fishery quotas.

Laura enjoys keeping physically active through walking, hiking and nature watching (when it is not raining in British Columbia). Yoga also helps her stay focused. Whenever possible, she travels to see research in action, such as during a transit of the Northwest Passage (see photo) in the summer of 2008.

Science Board

In 2006, to facilitate the continuity of Science Board affairs, the Governing Council established a Science Board Chairman-elect position to allow the election of the Science Board Chairman one year before the official change of the chairmanship. At PICES-2009, Dr. Sinjae Yoo (Korea; left) was unanimously elected for this position. At PICES-2010, he assumed duties of Science Board Chairman, replacing Dr. John Stein (U.S.A.). At the same meeting, Dr. Thomas Therriault (Canada, right) was elected Science Board Vice-Chairman. Brief introductions for Sinjae and Tom can be found in PICES Press, 2010, Vol. 18 (2). PICES thanks Dr. Stein for leading Science Board since 2007. He will continue to contribute to PICES as a U.S. national delegate on the Governing Council.

Biological Oceanography Committee

At PICES-2010, Dr. Atsushi Tsuda (Japan) was elected as Chairman of the Biological Oceanographic Committee (BIO). PICES thanks Dr. Michael Dagg (U.S.A.) for this dedicated service as Chairman of BIO since October 2004. He will continue to contribute to activities of the Organization as Vice-Chairman of the Committee.

Dr. Atsushi Tsuda is an Associate Professor at the Atmosphere and Ocean Research Institute, University of Tokyo, Japan. He received his B.Sc. in Fisheries from Hokkaido University and his Ph.D. in Agriculture from the University of Tokyo.

Atsushi was born and raised in Tokyo. In his childhood, he often went to the Tokyo Bay for fishing with his parents, and developed a respect for the ocean and marine life. During his undergraduate years, after Atsushi took a course on planktonology from Professor Takashi Minoda and met friendly and hardworking graduate students from the Laboratory of Plankton at Hokkaido University, the direction of his future research was decided.

Atsushi started his graduate course at the Ocean Research Institute, University of Tokyo, working on copepod ecology, especially grazing. His Ph.D. supervisor was Professor Takahisa Nemoto. After completion of his thesis, Atsushi moved to the Biological Oceanographic Section of the Hokkaido National Fisheries Research Institute as a research scientist in 1996. He served, with Dr. Hiroaki Saito and colleagues at the institute, on the *A-line* monitoring programme for 7 years. For several years in Hokkaido, he studied mainly the biology and ecology of copepods, focusing on the *Neocalanus* species and their role in fish population dynamics under the VENFISH (The Comprehensive Study of the Variation of the Oceanic Environment and Fish Populations in the Northwestern Pacific) project. Atsushi then became involved, along with Drs. Shigenobu Takeda, Jun Nishioka and Hiroaki Saito, in iron fertilization experiments in the subarctic Pacific (SEEDS-I, SERIES, and SEEDS-II) which were recommended by the PICES Advisory Panel on *Iron Fertilization Experiment in the Subarctic Pacific Ocean* (IFEP-AP).

Atsushi began his association with PICES by attending the 1996 PICES Annual Meeting. Later, he became a member of IFEP-AP and BIO. Atsushi is very excited to be serving on the BIO Committee and leading BIO now as Chairman, as goals of the Committee largely overlap with his scientific interests.

Atsushi is an enthusiastic fly fisherman and bird watcher. He always carries a pair of binoculars during PICES Annual Meetings. His lifelong list of birds includes 942 species and his Japanese list includes 401 species. The latest addition to the Japanese list is the Golden-crowned Sparrow in the Chiba Prefecture.

Mike Dagg was born in Vancouver, Canada, but did not stay long because his father was in the Canadian Air Force and moved a lot. Mike attended 11 schools before finishing high school, did his undergraduate work at Mount Allison University in New Brunswick (Canada), then completed a Master's degree at the University of Victoria (Canada) before moving to the University of Washington in Seattle (U.S.A.) for his Ph.D. He has lived in the United States since then, initially as a research scientist at Brookhaven National Laboratory in New York, and then as a research scientist at the Louisiana Universities Marine Consortium (LUMCON). He has recently moved to the Seattle area as an initial step towards retirement from LUMCON, which is anticipated to be in June 2012.

At Brookhaven Laboratory, he worked primarily on copepod feeding and the roles of zooplankton in the ecosystems of the New York Bight and Georges Bank areas, but also participated in research programs in the Peru upwelling area and the Bering Sea. As these programs began winding down, he moved to LUMCON, a new research laboratory on the coast of the Gulf of Mexico. Since then, he has primarily divided his research efforts between the coastal regions of the northern Gulf of Mexico and the Pacific Northwest, including the Bering Sea, the Gulf of Alaska, the open Pacific, and Dabob Bay, a fjord in Washington State (U.S.A.). Thematically, most of his oceanographic research has been on the various contributions of mesozooplankton to carbon and nitrogen cycling in the

ocean, but much effort has also been made towards understanding basic biological behavior (feeding, egg production) of important copepods in these oceanic systems. These patterns are continuing with current research projects: one in the Gulf of Mexico examining zooplankton contributions to organic matter flux in shallow coastal waters that become hypoxic every summer, and a second in Monterey Bay and coastal California looking at the role of zooplankton feeding in reducing flux of organic matter below the photic zone. Both projects are collaborations with other investigators.

Mike was not involved heavily in teaching because LUMCON is not a degree granting institution. However, adjunct appointments at Tulane University and Louisiana State University allowed some involvement with graduate students and teaching.

In recent years, Mike has been active in two organizations in the Pacific Northwest. He served on the Science Advisory Panel of the North Pacific Research Board for 6 years before stepping down from that position in August 2010. In PICES, Mike has been a member of BIO for the past 9 years, acting as Chairman for two 3-year terms before ending last October. He is now serving as Vice-Chairman for a single 3-year term, and is looking forward with great pleasure to continuing involvement in PICES.

Outside of science, Mike has spent countless hours over the years at various sports, including basketball, running, hiking, mountain-biking, and skiing. These have mostly been displaced now by more age-appropriate activities such as biking, gardening and drinking wine. Additional hobbies include photography, reading, cooking and riding around on his Vespa.

Physical Oceanography and Climate Committee

At PICES-2010, Dr. Kyung-Il Chang (Korea) was elected as Chairman of the Physical Oceanography and Climate Committee (POC). PICES thanks Drs. Michael Foreman (Canada) and Ichiro Yasuda (Japan) for their dedicated service as Chairman and Vice-Chairman of POC, respectively, since October 2004. Dr. Foreman will continue to contribute to PICES as Vice-Chairman of the Committee, and Dr. Yasuda will serve as a POC member.

After his birth in Seoul, in 1958, Kyung-Il Chang moved from place to place within Korea for several years with his father who was a Korean army officer. When he reached the age of 9 years, his family settled down in Seoul, and he has lived in this city since then. Kyung-Il was very much interested in playing soccer during his middle and high school years. After entering the College of Natural Sciences at Seoul National University (SNU) in 1977 and enrolling in the Department of Oceanography in 1978, Kyung-Il set up a University's skin and scuba club with his colleagues and absorbed himself in its activities during his undergraduate and M.Sc. course years. After completing the M.Sc. course in 1984, with a major in physical oceanography, and two years of military service, Kyung-Il became a researcher at the Korea Ocean Research and Development Institute (KORDI). He was with KORDI for 19 years until moving to SNU as an associate professor in 2005.

While at KORDI, Kyung-Il spent about 3½ years in the United Kingdom for his Ph.D. studies. He received his Ph.D. in 1994 from the Department of Oceanography, University of Southampton, UK. His research topic was the shelfward penetration of the Kuroshio in the East China Sea. Kyung-Il used a numerical model for his thesis and soon became interested in models and modeling experiments, while struggling to resolve problems he encountered trying to become more familiar with new skills in studying oceanography. He worked as a postdoctoral fellow at University of California at Los Angeles (UCLA) from 1997 to 1998 with Prof. Michael Ghil. Being supported by a joint program of UCLA and LANL (Los Alamos

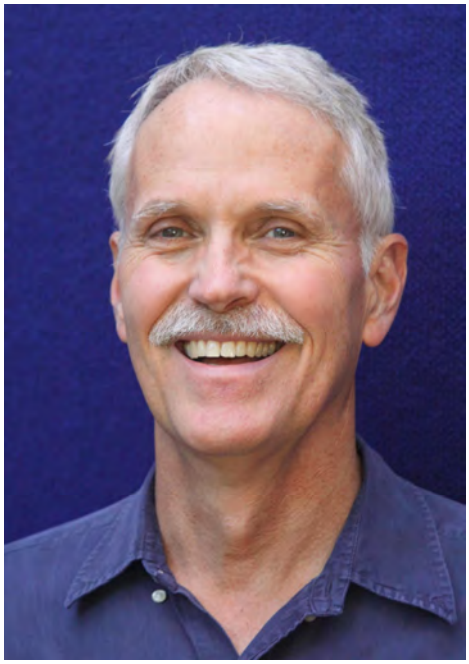
National Laboratory), Kyung-Il spent most of his time at LANL carrying out numerical modeling experiments to determine how a simple barotropic wind-driven double gyre becomes finally chaotic.

Kyung-Il has long been working on various aspects of physical oceanography of the East Sea: deep circulation and currents, hydrography and currents in Korea Strait, and interaction of near-inertial waves with mesoscale eddies. In 1996, he led a KORDI in-house project entitled "*East Sea Marine Science Program (ESMASP) – Science and Implementation Plan*", which motivated his interest in studying the East Sea (Sea of Japan). In preparation for an extensive ESMASP report, participation in a winter 2005 CREAMS (Circulation Research of the East Asian Marginal Seas) expedition on board the R/V *Gordienko* gave him strong inspiration to study the East Sea, although it was a hard cruise.

After coming back from his postdoc studies at UCLA, Kyung-Il has been mainly involved in research projects on the oceanography of the East Sea at both KORDI and SNU. He participated in long-term moored current measurements at a location (EC1) in the deep East Sea in 1996, which was initiated by Prof. Kuh Kim at SNU, Dr. Sang-Kyung Byun at KORDI, and Dr. Nelson Hogg at WHOI. The EC1 mooring has been jointly maintained by KORDI and SNU for 15 years since then. With support from KORDI's in-house projects, Kyung-Il was also involved in the CREAMS-II Program, collaborating with scientists supported by the U.S. ONR (Office of Naval Research) JES (Japan/East Sea) Program between 1998 and 2002. As part of the Program, he joined two research cruises on board the R/V *Roger Revelle* in Korea Strait to deploy an array of current meters and in the southern East Sea to make high-resolution observations using an undulating SeaSoar.

Kyung-Il also collaborated with biologists to investigate the role of mesoscale eddies in shaping surface chlorophyll distribution. Recently, he has been actively involved in the Korea CREAMS/PICES Program in East Asian Marginal Seas (EAST), an official program of PICES, since 2006. Through this project, he successfully deployed a bio-optical mooring in the southwestern East Sea in 2010 for the first time during the transition period from winter to spring bloom in the region. The mooring clearly captured the spring bloom, and the results suggest an important role of subsurface cold water advection in triggering the bloom. He intends to expand and extend bio-optical moorings in the next stage of the Korea EAST Program to understand physical–biological interactions in the southwestern East Sea, which has recently been recognized as a very productive region.

Kyung-Il made the first connection with PICES at the end of the 1990s, by attending a CCCC workshop in Nemuro, Japan. He was one of conveners and local organizers for the first PICES Summer School on "*Ocean circulation and ecosystem modeling*" in August 2006 in Busan. He hosted the CREAMS/PICES workshop on "*Model/data inter-comparison for the Japan/East Sea*" also held in Busan in 2006, and served as one of guest editors for a special issue of the *Journal of Marine Systems* published in 2009, which contained a collection of papers presented at the workshop. Kyung-Il has been a member of POC since 2006 and a member of the CREAMS/PICES Advisory Panel since 2009, and he is now serving as Chairman of POC.



Dr. Michael Foreman is a Research Scientist at the Institute of Ocean Sciences (Fisheries and Oceans Canada) and an Adjunct Professor at the University of Victoria and University of British Columbia. Originally educated as an applied mathematician, he fell into oceanography 37 years ago when the only other job offer he had after graduating was working for IBM as a salesman. Though he becomes sea-sick easily and seldom ventures into the field, the "fall" turned out to be the right career choice (at least from his perspective; colleagues and his financial adviser may argue otherwise). His current research includes coastal biophysical modeling, climate change modeling and analyses, data assimilation, satellite altimetry analyses, and the analysis, prediction and modeling of tides. He was Chairman of the Physical and Oceanographic and Climate Committee from October 2004 to October 2010, Co-Chairman of Working Group on *Evaluations of Climate Change Projections* from October 2004 to October 2010, and is a member of the PICES/ICES Working Group on *Climate Change Impacts on Fish and Shellfish*. Though an avid golfer and general sports nut, his sporting advice is no longer sought by PICES after the curling event that he arranged at PICES-2007 was fortunate to avoid personal injury litigation.

Technical Committee on Data Exchange

At PICES-2010, Dr. Toru Suzuki (Japan) was elected as Chairman of the Technical Committee on Data Exchange (TCODE) to replace the late Dr. Bernard Megrey (U.S.A.). Dr. Hernan Garcia (U.S.A.) was elected TCODE Vice-Chairman to replace Dr. Kyu-Kui Jung (Korea), who will continue to serve as a TCODE member.

Dr. Toru Suzuki is the general manager of the Research Division at the Marine Information Research Center (MIRC), Japan Hydrographic Association. He received his B.Sc. (1990), M.Sc. (1992) and Ph.D. (1997) degrees in Fisheries from Tokyo University of Fisheries (the present Tokyo University of Marine Science and Technology). Toru's background is physical oceanography, and he has worked for oceanographic and bathymetric data management and quality control in MIRC since 1997 with Dr. Yutaka Nagata, Professor Emeritus of the University of Tokyo, the first Chairman of POC and the recipient of the 2002 PICES Wooster Award. Toru also generates some oceanographic and bathymetric data products for enlightenment and popularization. For example, he installed the exhibition of OmniGlobe® (www.arcsience.com), a 60-inch spherical display with some oceanographic and bathymetric contents and a 3-D physical terrain model of 90-inch squares in the Northwest Pacific region (www.stm-usa.com) in the Museum of Maritime Science in Tokyo, and provided the bathymetric grid data at 30 arc-second intervals around Japan to Google™ Earth.

Toru has attended PICES Annual Meetings since 1999 in Vladivostok and was a member of Working Group on *Biogeochemical Data Integration and Synthesis* (2001–2005) He also is a member of the Section on *Carbon and Climate* (2005–present), TCODE (2007–present), and FUTURE Advisory Panel on *Climate, Oceanographic Variability and Ecosystems* (2009–present). Toru serves as a member of the Group of Experts on *Biological and Chemical Data Management and Exchange Practices* of the IOC Committee on International Oceanographic Data and Information Exchange (IODE GE-BICH).

Toru was born and raised in Akita prefecture, the northeast area of Japan that experiences heavy snowfall in winter, so he has enjoyed skiing since his childhood. After leaving his hometown, he always looks for snow and holidays. Toru is a big fan of Yokohama Baystars, one of Japan's professional baseball teams, and his mood, therefore, has been not good for several years. He is also a big fan of the Japanese national football (soccer) team and does not miss watching their games at a pub or a stadium in a year of the FIFA World Cup, if he is fortunate to get a valuable ticket. When not working, Toru enjoys tasting microbrews, betting at big horse races, listening to classical music and opera, and infrequently playing a trumpet.

Dr. Hernan Garcia is an oceanographer at NOAA's Ocean Climate Laboratory, National Oceanographic Data Center (NODC). He received his Ph.D. (1996) in Chemical Oceanography from the College of Oceanic and Atmospheric Sciences, Oregon State University. He works processing large amounts of historical chemical and physical oceanographic data to help interpret seasonal to decadal scale oceanic changes in dissolved oxygen and nutrients.

Hernan has attended PICES Annual Meetings since 2004 and is a member of the Section on *Carbon and Climate* (CC-S) and TCODE. He also serves as a member of the Group of Experts on *Biological and Chemical Data Management and Exchange Practices* of the IOC Committee on International Oceanographic Data and Information Exchange (IODE GE-BICH). Hernan likes camping, collecting old oceanographic instruments, and flying remote control airplanes. He is a huge fan of the Beatles and listens to R&R.