

**2013 Governing Council decisions**

**2013/A/1: Auditor**

Council accepted the audited accounts for *FY* 2012.

**2013/A/2: Annual contributions**

- i. Council re-iterated that for planning of their funding requests for annual contributions, Contracting Parties should continue to use the guideline generally accepted at PICES-1999 (Decision 1999/A/2(ii)), which states that the annual contributions will increase at the rate of inflation in Canada.
- ii. Council instructed the Executive Secretary to send a letter to the Contracting Parties indicating the need for timely payment of the annual contribution and describing the difficulties that late and/or partial payment causes the Organization.
- iii. Council requested the F&A Chairman and Executive Secretary to develop and present at PICES-2014 appropriate metrics to characterize the increase in science activities of the Organization, as well as the formula for determining the size of the potential increase in annual contributions and to develop alternative approaches (incremental or one time) for the increase.

**2013/A/3: Budgetary considerations**

- i. Council accepted the estimated accounts for *FY* 2013, noting that the expenses for “foreign exchange loss” are only estimated at this time.
- ii. Council approved the *FY* 2014 budget of \$875,000. The amount of \$131,000 will be transferred from the Working Capital Fund to balance the budget, setting the total annual contribution at \$744,000, and the 2014 annual contribution at \$124,000 per Contracting Party.
- iii. Council approved a transfer from the Working Capital Fund to the Relocation and Home Leave Fund in order to bring the balance of the Relocation and Home Leave Fund to \$110,000.
- iv. Council approved a transfer from the Working Capital Fund to the Trust Fund to recover the 2013 expenses and restore the Trust Fund to the level of \$110,000.
- v. Council agreed to allocate funds available from the completed projects in the Working Capital Fund as of December 31, 2013, for the development of the PICES integrative science program “*Forecasting and Understanding Trends, Uncertainty and Responses of North Pacific Ecosystems*” (FUTURE). Council also instructed the Executive Secretary to send a letter to the Contracting Parties providing information on planned activities for FUTURE and requesting contributions to these activities, particularly to the 2014 FUTURE Open Science Meeting (OSM). This letter should include a comment encouraging Council members to participate in the OSM and follow-up inter-sessional Science Board meeting.
- vi. Council approved a lump sum employer contribution of \$20,000 from the *FY* 2014 budget to the International Fisheries Commission (IFC) Pension Plan to pay down unfunded liabilities. An additional lump sum payment (up to \$25,000) will be paid to the IFC Pension Plan, if there is a *FY* 2013 surplus in the General Fund as determined by the Auditor’s Report for 2013.

**2013/A/4: Future PICES Annual Meetings and 2014 inter-sessional Science Board meeting**

- i. Council accepted the offer of Korea to host PICES-2014 from October 17–26, 2014, in Yeosu, and approved Korea’s request for \$40,000 to partially cover costs for this meeting. The theme for PICES-2014 will be “*Toward a better understanding of the North Pacific: Reflecting on the past and steering for the future*”.
- ii. Council requested an answer from China by December 1, 2013, regarding its ability to host PICES-2015. If China is unable to host PICES-2015 or provides no response by the due date, the Annual Meeting will be held at the seat of the Organization in Victoria, Canada, as directed by Article VI.3 of the PICES Convention.
- iii. Council requested the United States to confirm by March 31, 2014 their intention to host PICES-2016.
- iv. Council tasked the F&A Chairman and Executive Secretary to present at PICES-2014 a comparison of the existing approach with an alternate approach to financing the Annual Meetings through supplemental

annual contributions by each Contracting Party. In addition, a hybrid approach in which each Contracting Party could choose either the current approach or supplemental annual contributions should be considered.

- v. Council agreed to keep the same registration fee structure for PICES-2014 as for PICES-2010 through PICES-2013:

Type of registration fee	CDN \$
Regular	275
Early	200
Student	50
Spousal/guest	50

- vi. Council approved an inter-sessional Science Board meeting (ISB-2014) to be held immediately after the FUTURE Open Science Meeting (April 14–18, Kohala Coast, Big Island, Hawaii, U.S.A.).

#### **2013/A/5: Twenty-Fifth Anniversary of PICES**

- i. Council approved as guidance that each Contracting Party raise at least \$25,000 for the 25<sup>th</sup> Anniversary of the Organization. Fund raising can be incremental and spread over the time between now and 2015. All Contracting Parties are encouraged to commence fund raising activities as early as possible. The Executive Secretary was instructed to create a separate encumbered fund for the 25<sup>th</sup> Anniversary to track contributions.
- ii. Council requested Canada to appoint a member to the Anniversary Planning Committee.

#### **2013/A/6: PICES Visiting Scientist Program**

- i. Council approved revision of the description of the Visiting Scientist Program to include two categories (junior and senior) of visiting scientist (see *GC Appendix B*).
- ii. Council instructed the Science Board Chairman to review the Visiting Scientist Program at ISB-2014 to insure all Science Board members are aware of the Program and will work to identify tasks and potential candidate visiting scientists.

#### **2013/A/7: PICES Intern Program**

- i. Considering funding currently available for the Intern Program and stated intentions for contributions by Contracting Parties, Council agreed to initiate the process to obtain the 2014 intern, with the understanding that the intern's term will start in June 2014. Following the existing rotation cycle, Russia was requested to nominate the intern by December 31, 2013.
- ii. Council instructed the Executive Secretary to invite Contracting Parties to provide voluntary contributions to the Trust Fund to support the Intern Program in 2014 and beyond.
- iii. Council tasked the Executive Secretary to present at PICES-2014 a summary report on the implementation of the Intern Program since its inception in 2000, including information on the current status of former interns as a measure of the Program value.

#### **2013/A/8: Amendment to Rules of Procedure**

- i. Council approved the revision to Rule 19 (iii). Preceding the last sentence of 19(iii) add the following: "If the Chairman of the Finance and Administration Committee cannot attend an annual meeting, for any reason, then the Chairman of the Council will appoint an alternate to serve as interim Chairman of the Finance and Administration Committee."
- ii. Council approved the revision to Definition of Terms related to *ex-officio* members: "An *ex-officio* member is a person from a non-Contracting Party or an international organization formally appointed annually to a group by the Council on the basis of their expertise."

#### **2013/A/9: Improvement of participation in PICES activities**

- i. In order to better assess problems existing in Contracting Parties with the participation of their scientists in the activities of the Standing Committees and their subsidiary bodies, and in the Annual Meetings of the Organization, Council requested the Executive Secretary to continue regularly preparing and circulating to Contracting Parties information on participation of their scientists in the Annual Meetings.

- ii. Council re-iterated the necessity for Contracting Parties to: (1) regularly review their national membership, and to provide the updated national membership list to the Secretariat by the first day of the calendar year (January 1), and (2) follow up on *Rule 1(ii)* of the PICES Rules of Procedure in providing the national delegation list for Annual Meetings.

#### **2013/A/10: World Ocean Assessment (UN Regular Process for Global Reporting and Assessment of the State of the Marine Environment)**

Council re-iterated the importance of facilitating the conduct of the World Ocean Assessment and instructed the Executive Secretary to send a request to Contracting Parties to ensure that appropriate experts are nominated to the *Pool of Experts*, the body from which the *Group of Experts* will select authors and reviewers of the first World Ocean Assessment.

#### **2013/A/11: Arctic-based activities**

Council requested Contracting Parties to send comments on PICES participation in Arctic-based activities to the Executive Secretary by December 31, 2013, to allow a more informed discussion on this issue at PICES-2014.

#### **2013/A/12: Staffing the PICES Executive Secretary position**

- i. Council approved the position announcement for the PICES Executive Secretary (*GC Appendix B*);
- ii. Council agreed to form a committee with one member from each Contracting Party to participate in staffing the PICES Executive Secretary position. The PICES Chairman will retain overall responsibility for the process, but committee members will: (a) provide advice to the Chairman at each stage of the staffing process, (b) participate in selecting a short list of candidates to be interviewed, and (3) participate in the interviews with candidates on the short list to be scheduled in Yeosu, Korea, just prior to the opening of PICES-2014.

#### **2013/S/1: 2014 PICES Annual Meeting**

- i. The following scientific sessions are to be convened at PICES-2014:
  - ¾-day Science Board Symposium on “*Toward a better understanding of the North Pacific: Reflecting on the past and steering for the future*”;
  - ½-day BIO Contributed Paper Session;
  - ½-day BIO Topic Session on “*Strengths and limitations of habitat modeling: Techniques, data sources, and predictive capabilities*”;
  - 1-day BIO/MEQ Topic Session on “*Tipping points: defining reference points for ecological indicators of multiple stressors in coastal and marine ecosystems*”;
  - ½-day BIO/MONITOR/TCODE Topic Session on “*Use of long time series of plankton to inform decisions in management and policy concerning climate, ecosystems and fisheries*”;
  - ½-day FIS Contributed Paper Session;
  - ½-day FIS Topic Session on “*Ecosystem considerations in fishery management of cod and other important demersal species*”;
  - ½-day FIS/FUTURE Topic Session on “*Climate change impacts on spatial distributions of marine fish and shellfish*”;
  - 1-day FIS/TCODE/FUTURE Topic Session on “*Recent assessments of climate change impacts on marine ecosystems*”;
  - ½-day MEQ Contributed Paper Session;
  - ½-day MEQ Topic Session on “*Marine debris in the Pacific Ocean: Source, transport, fate and effects of macro- and micro-plastics*”;
  - ½-day POC Contributed Paper Session;
  - 1-day POC/MONITOR Topic Session on “*Variability in advection and its biological consequences for Subarctic and Arctic ecosystems*”;
  - 1-day POC/TCODE/FUTURE Topic Session on “*Regional climate modeling in the North Pacific*”;
  - ½-day MarWeb Topic Session on “*Ecological and human social analyses and issues relating to Integrated Multi Trophic Aquaculture*”.

- ii. The following workshops are to be convened at PICES-2014:
- 2-day FIS Workshop on “*Dynamics of pelagic fish in the North Pacific under climate change*” (co-sponsored by ISC);
  - 1-day FIS Workshop on “*Towards improved understanding of linkages between Pacific salmon and their marine ecosystems*” (co-sponsored by NPAFC);
  - 1-day MEQ Workshop on “*Mitigation of harmful algal blooms: Novel approaches to a decades long problem affecting the viability of natural and aquaculture fisheries*”;
  - 1½-day MONITOR Workshop on “*Networking ocean observatories around the North Pacific Ocean*” (co-sponsored by Ocean Network Canada and U.S. CLIVAR);
  - ½-day POC Workshop on “*SOLAS into the Future: Designing the next phase of the Surface Ocean-Lower Atmosphere Study within the context of the Future Earth Program*” (co-sponsored by SOLAS);
  - 1-day TCODE Workshop on “*Tools, approaches and challenges for accessing and integrating distributed datasets*”;
  - 1-day Science Board Workshop on “*Marine ecosystem services*” (this workshop might be held inter-sessionally with support from the State Oceanic Administration, China).
- iii. The following business meetings are to be held at PICES-2014:
- ¼-day Science Board (SB) meeting (October 19) and 1½-day SB meeting (October 25 afternoon and October 26);
  - 1½-hour overture meetings (October 19 evening) and ½-day meetings (October 22 afternoon) of Scientific and Technical Committees;
  - 1½-hour overture meeting (October 19 evening) and ½-day meeting (October 22 afternoon) of the SB Section on *Human Dimensions of Marine Systems* (S-HD);
  - ½-day meeting of the BIO/FIS/POC Section on *Climate Change Effects on Marine Ecosystems* (S-CCME);
  - 1-day meeting of the MEQ Section on *Ecology of Harmful Algal Blooms in the North Pacific* (S-HAB);
  - ½-day meeting of the POC/BIO Section on *Carbon and Climate* (S-CC);
  - 1-day meeting of the POC Working Group on *North Pacific Climate Variability and Change* (WG 27);
  - 2-day meeting of the MEQ/BIO Working Group on *Development of Ecosystem Indicators to Characterize Ecosystem Responses to Multiple Stressors* (WG 28);
  - 1-day meeting of the POC Working Group on *Regional Climate Modeling* (WG 29);
  - 1½-day meeting of the MEQ Working Group on *Assessment of Marine Environmental Quality of Radiation around the North Pacific* (WG 30);
  - 1-day meeting of the MEQ Working Group on *Emerging Topics on Marine Pollution* (WG 31);
  - 1-day meeting of the BIO Advisory Panel on *Marine Birds and Mammals* (AP-MBM);
  - ½-day meeting of the POC/MONITOR Advisory Panel for a *CREAMS/PICES Program in East Asian Marginal Seas* (AP-CREAMS);
  - ½-day meeting of the MONITOR Advisory Panel on the *Continuous Plankton Recorder Survey in the North Pacific* (AP-CPR);
  - 1-day meeting of the SB Study Group on *Socio-Ecological-Environmental Systems* (SG-SEES);
  - 1-day meeting of the SB Study Group on *Biodiversity Conservation* (SG-BC);
  - ¼-day concurrent meetings of the FUTURE Advisory Panels on *Anthropogenic Influences on Coastal Ecosystems* (AP-AICE), *Climate, Oceanographic Variability and Ecosystems* (AP-COVE) and *Status, Outlooks, Forecasts, and Engagement* (AP-SOFE), preceded by a ¾-day joint meeting of these Panels.

### **2013/S/2: Inter-sessional symposia/sessions/workshops/meetings**

The following inter-sessional events are to be convened/co-sponsored in 2014 and beyond:

- i. Symposia/conferences:
- FUTURE Open Science Meeting, April 14–18, 2014, Kohala Coast, Hawaii, U.S.A. (approved in 2012);
  - 29<sup>th</sup> Lowell Wakefield Fishery Symposium on “*Fisheries bycatch: Global issues and creative solutions*”, May 13–16, 2014, Anchorage, U.S.A. (co-sponsored by PICES);
  - ICES/PICES Symposium on “*Ecological basis of risk analysis for marine ecosystems*”, June 2–4, 2014, Porvoo, Finland (approved in 2012);

- 3<sup>rd</sup> PICES/ICES/IOC Symposium on “*Effects of climate change on the world’s oceans*”, March 23–27, 2015, Santos, Brazil (approved in 2012).
- ii. Joint Theme Sessions:
  - IMBER/PICES Theme Session on “*Responses of society to marine and global changes as a core mandate for IMBER: ways forward*” at the IMBER Open Science Conference, June 23–28, 2014, Bergen, Norway;
  - ICES/PICES Theme Sessions on “*Gelatinous zooplankton on global perspective: Interactions with fisheries and consequences for socio-economics*” (Session A), “*The increasing importance of biofouling for marine invasions: An ecosystem altering mechanism*” (Session I), and “*Physical and biological consequences of North Atlantic circulation patterns*” (Session Q) at the 2014 ICES Annual Science Conference, September 15–19, 2014, A Coruña, Spain.
- iii. Workshops and meetings:
  - 1-day meeting of the Project Science Team for the PICES/MAFF project on “*Marine ecosystem health and human well-being*”, April 13, 2014, Kohala Coast, Hawaii, U.S.A.;
  - 2-day inter-sessional Science Board meeting, April 19–20, 2014, Kohala Coast, Hawaii, U.S.A.;
  - 2-day meeting of the Evaluation Team to assess progress of FUTURE, April 19–20, 2014, Kohala Coast, Hawaii, U.S.A.;
  - ½-day joint meeting of the Evaluation Team and Science Board, April 21, 2014, Kohala Coast, Hawaii, U.S.A.;
  - ½-day PICES/ICES meeting to discuss joint activities of the two Organizations and progress made within the PICES/ICES framework for scientific cooperation endorsed in 2011, September 2014, A Coruña, Spain (in conjunction with the 2014 ICES Annual Science Conference).
- iv. Capacity development events:
  - IMBER ClimECO4 Summer School on “*Delineating the issues of climate change and impacts to marine ecosystems: Bridging the gap between research, assessment, policy and management*”, August 4–9, 2014, in Shanghai, China (co-sponsored by PICES);
  - 2014 PICES Summer School on “*Ecological modeling for marine resources management and research*”, August 26–29, 2014, Seoul, Korea (approved in 2012);
  - 3-day PICES/MAFF training course to develop and set-up pond experiments (PICES/MAFF project on “*Marine ecosystem health and human well-being*”), February or March 2014, Indonesia.

### **2013/S/3: Travel and representation at the meetings of other organizations/programs**

- i. FUTURE Open Science Meeting:
  - Invited speakers for Topic Sessions, with the normal allocation of approximately \$5,000 per session; additional requests are subject to fund availability;
  - One invited speaker for each of the approved workshops;
  - Members of the Evaluation Team to assess progress of FUTURE.
- ii. 2014 PICES Annual Meeting:
  - Invited speakers for Science Board Symposium and Topic Sessions, with the normal allocation of approximately \$5,000 per Committee/Program; additional requests are subject to fund availability;
  - One invited speaker for each of the approved workshops (see 2013/S/1(ii)).
- iii. Inter-sessional events:
  - PICES associate member of SCOR WG 140 on *Biogeochemical Exchange Processes at the Sea-Ice Interfaces* to attend the WG 140 meeting (March 16, 2014, Hobart, Australia);
  - PICES representative to attend the NPAFC Annual Meeting (May 12–16, 2014, Portland, U.S.A.);
  - PICES convener and invited speaker to participate in the 29<sup>th</sup> Lowell Wakefield Fishery Symposium on “*Fisheries bycatch: Global issues and creative solutions*” (May 13–16, 2014, Anchorage, U.S.A.);
  - PICES convener to participate in the ICES/PICES Symposium on “*Ecological basis of risk analysis for marine ecosystems*” (June 2–4, 2014, Porvoo, Finland);
  - PICES convener and keynote speaker for the joint IMBER/PICES Theme Session on “*Responses of society to marine and global changes as a core mandate for IMBER: ways forward*” at the IMBER Open Science Conference (June 23–28, 2014, Bergen, Norway);

- PICES representative to participate in the 47<sup>th</sup> Session of IOC (Intergovernmental Oceanographic Commission of UNESCO) Executive Council (June 30–July 3, 2014, Paris, France);
- PICES representative to attend the 1<sup>st</sup> Pan-CLIVAR meeting (July 17–18, 2014, The Hague, The Netherlands);
- PICES representatives and convenors for the joint Theme Sessions to participate in the ICES Annual Science Conference (September 15–19, 2014, A Coruña, Spain);
- PICES representative to attend the SCOR (Scientific Committee on Oceanic Research) Executive General Meeting (fall 2014, Bremerhaven, Germany);
- PICES representative to participate in the 19<sup>th</sup> NOWPAP (Northwest Pacific Action Plan) Intergovernmental Meeting (December 2014, TBD).

#### 2013/S/4: Publications

- i. The following publications are to be produced in or submitted to primary journals in 2014:
  - Special issue of *Progress in Oceanography*, dedicated to Dr. Bernard Megrey, on modeling and observational approaches to understanding marine ecosystem dynamics (Guest Editors: E. Curchitser, S.I. Ito, M. Kishi, M. Peck and K. Rose) to be published electronically in late 2014 and hard copy in early 2015;
  - Special issue of *Progress in Oceanography* based on selected papers from the 2012 Topic Session on “*Advances in understanding the North Pacific Subtropical Frontal Zone ecosystem*” (Guest Editors: T. Ichii, S. McKinnell and M. Seki) to be submitted in 2014;
  - Special issue of *ICES Journal of Marine Science* based on selected papers from the 2013 PICES/ICES workshop on “*Global assessment of the implications of climate change on the spatial distribution of fish and fisheries*” and the ICES/PICES Theme Session on “*Responses of living marine resources to climate change and variability*” at the 2013 ICES Annual Science Conference (Lead: A. Hollowed) to be published in late 2014–early 2015;
  - Review paper based on findings from the 2013 PICES/ICES/GEOHAB workshop on “*Harmful algal blooms in a changing world*” (Lead Author: M. Wells) to be published in *Harmful Algae*.
- ii. The following publications are to be produced in the PICES Scientific Report series in 2014:
  - Report of the 2012 GLOBEC/PICES/ICES Workshop on “*Forecasting ecosystem indicators with process-based models*” (Editors: E. Di Lorenzo, A. Miller and S. Minobe);
  - Final report of the Study Group on *Marine Pollutants* (Editor: P. Ross);
  - Final Report of the Working Group 21 on *Non-indigenous Aquatic Species* (Editors: D. Smith and T. Therriault);
  - Final Report of the Working Group 26 on *Jellyfish Blooms around the North Pacific Rim: Causes and Consequences* (Editors: R. Brodeur and S.-I. Uye);
  - Report, jointly with NOWPAP, on “*Economic and social impacts of HABs on aquaculture and fisheries*” (Editors: S. Itakura, V. Trainer and T. Yoshida);
  - Report on “*Oceanography of the Yellow and East China Seas (EAST-II region)*” (Editors: J. Ishizaka, T. Matsuno, J. Zhang, J.-H. Lee, S. Kim, D. Xu, Y. Fei, S.-M. Liu and V. Lobanov);
  - Report on “*The legal and regulatory foundations of fisheries management in PICES member countries*” (Editors: K. Criddle and M. Makino).
- iii. Other publications to be produced in 2014 include:
  - Brochures on 6 themes from the PICES/ICES workshop on “*Global assessment of the implications of climate change on the spatial distribution of fish and fisheries*” (May 22–24, 2013, St. Petersburg, Russia);
  - Announcement and poster for PICES-2014 (October 17–26, 2014, Yeosu, Korea);
  - Books of Abstracts for the FUTURE Open Science Meeting and PICES-2014 to be published on the website and distributed electronically;
  - Two regular issues of PICES Press to be published on the website and distributed electronically in winter (Vol. 22, No. 1) and summer (Vol. 22, No. 2) of 2014.
- iv. Korea and Japan will meet bilaterally to attempt to resolve the publication of the supplementary chapter for the second North Pacific Ecosystem Status Report developed by the Advisory Panel for a CREAMS/PICES Program in East Asian Marginal Seas, and report back to Council at PICES-2014.

### **2013/S/5: Future of current PICES expert groups**

- i. The following expert groups completed their terms of reference and will be disbanded prior to PICES-2014 after submitting their final reports:
  - MEQ Study Group on *Marine Pollutants* (SG-MP);
  - MEQ Working Group on *Non-indigenous Aquatic Species* (WG 21);
  - BIO Working Group on *Jellyfish Blooms around the North Pacific Rim: Causes and Consequences* (WG 26).
- ii. To allow some additional time for processing the output of the IPCC climate models used in the last assessment (AR5) and preparing contributions for the 3<sup>rd</sup> PICES/ICES/IOC Symposium on “*Effects of climate change on the world’s oceans*”, with the goal of showcasing some of the advances made within the FUTURE key research themes, the life span of the POC Working Group on *North Pacific Climate Variability and Change* (WG 27) and the POC/BIO Working Group on *Regional Climate Modeling* (WG 29) was extended for 1 year (until October 2015).

### **2013/S/6: New PICES expert groups**

- i. The MEQ Working Group on *Assessment of Marine Environmental Quality of Radiation around the North Pacific* (WG 30), with terms of reference as described in *GC Appendix B*, was established in the interim period.
- ii. The following expert groups, with terms of reference as described in *GC Appendix B*, were established at PICES-2013:
  - MEQ Working Group on *Emerging Topics in Marine Pollution* (WG 31);
  - SB Study Group on *Socio-Ecological-Environmental Systems* (SG-SEES);
  - SB Study Group on Biodiversity Conservation (SG-BC).

### **2013/S/7: Chairmanship and membership for Science Board, Standing Committees and expert groups**

- i. Dr. Thomas Therriault (Canada) started his term as the Chairman of Science Board. Dr. Hiroaki Saito (Japan) was unanimously elected as the Vice-Chairman of Science Board.
- ii. The following reflects changes in Chairmanship and Vice-Chairmanship for Standing Committees and expert groups:
  - Dr. Angelica Peña (Canada) was elected as the Chairman of the Biological Oceanography Committee to replace Dr. Atsushi Tsuda (Japan);
  - Dr. Atsushi Tsuda (Japan) was elected as the Vice-Chairman of the Biological Oceanography Committee to replace Dr. Michael Dagg (U.S.A.);
  - Dr. Jennifer Boldt (Canada) was elected as the Chairman of the Technical Committee on Monitoring to replace Dr. Hiroya Sugisaki (Japan);
  - Dr. Sanae Chiba (Japan) was elected as the Vice-Chairman of the Technical Committee on Monitoring to replace Dr. Phillip Mundy (U.S.A.);
  - Dr. Steven Bograd (U.S.A.) was approved as the Chairman of the FUTURE Advisory Panel on *Anthropogenic Influences on Coastal Ecosystems* to replace Dr. Thomas Therriault (Canada);
  - Dr. Shigeru Itakura (Japan) was approved (inter-sessionally) as the Chairman of the Section on *Ecology of Harmful Algal Blooms in the North Pacific* to replace Dr. Changkyu Lee (Korea);
  - Drs. Kathryn A. Higley (U.S.A.) and Yusheng Zhang (China) were approved as the Co-Chairmen of the Working Group on *Assessment of Marine Environmental Quality of Radiation around the North Pacific*.
- iii. Council agreed that the Chairman of PICES will send a letter of thanks to outgoing Committee Chairmen.

### **2013/S/8: Relations with other organizations and programs**

- i. Council approved the revised *Standing List of International and Regional Organizations and Programs* and agreed with the identified priorities for interaction in 2013–2014 (see *GC Appendix B*).
- ii. The joint NPAFC-PICES Study Group on *Scientific Cooperation in the North Pacific Ocean* (SG-SC-NP), with terms of reference as described in *GC Appendix B*, was established in the interim period.
- iii. Council instructed the Executive Secretary to explore the *SCOR Visiting Scholars Program* and *POGO-SCOR Fellowship Program* and provide options for decision at PICES-2014.

## ***GC Appendix B***

### **Visiting Scientist Program** *(approved October 19, 2013)*

#### Rationale

Scientific activities sponsored and/or conducted by PICES have increased significantly since its inception in 1992, as has its production of scholarly works. Growth was achieved by making efficient use of national contributions and by attracting external funding for PICES activities. In addition, the new PICES FUTURE Scientific Program, which began in 2009, will require a great deal of scientific involvement, oversight, and collaboration in order to be successful. This will involve the need to deliver timely, high quality scientific products to the PICES community and beyond. PICES is seeking ways to enhance the ability of the Organization and the Secretariat to support the increasing demand. Establishing a PICES Visiting Scientist Program will allow national agencies and/or other international science organizations to contribute “in kind” toward achieving PICES goals, and improve the way the Organization functions.

#### Objectives of the program

- to provide for and enhance collaborative projects among PICES member countries;
- to strengthen the capacity of the Organization to develop and implement projects that have high priority for PICES and member countries, particularly those linked to integrative science programs of PICES;
- to provide professional development of marine scientists and managers from PICES member countries.

#### Nature of the program

Each visiting scientist (expert) will be made available to PICES through secondments from national agencies and/or other international science organizations. He/she will be given a specific task that is important to PICES and is also in the interests of his/her agency/organization. The secondment should be governed by a mutual agreement developed between PICES and the seconding agency/organization. The agreement spells out the terms of reference for the tasks, responsibilities, duration, as well as the legal terms.

The expert will perform the given task either at the PICES Secretariat, at their home institution, or at an institution of another PICES country that has agreed to host the expert, while the expert remains on the payroll of his/her agency/organization. The expert's agency/organization shall pay the salary, allowances, and expenses incurred in travel to and from the place of residence and the location of the secondment. Since the expert will continue to be an employee of his agency/organization while working on their collaborative project, his/her expenses relating to taxes, medical and life insurance coverage, and any other benefits to which the expert is entitled, will remain the responsibility of his/her agency/organization.

PICES or the hosting institution shall provide appropriate facilities, including office space and administrative services. Travel expenses associated with the expert's work under the collaborative project will be shared by PICES or the hosting agency and the expert's agency/organization as agreed upon in the MOU.

#### Qualification

*Senior Scientist:* The expert should be an experienced individual (Ph.D. or master's level scientist with over 5 years of post-master's degree experience) with good scientific writing and oral communication skills in English. The particular qualifications will depend on the tasks outlined for the collaborative project.

*Junior Scientist:* The scientist should be an early career Ph.D. scientist or a master's level scientist with at least 2 years of experience, and in either case has demonstrated scientific writing and oral communications skills in English. The particular qualifications will depend on tasks outlined for the collaborative project.

#### Duration and starting date

The program will be implemented following approval by the Governing Council and identification of potential tasks by the Science Board. The expert's term will start after approval of the specific MOU. Duration of the term will depend on the specific task. The expert may be onsite for as little as two weeks to as long as visa requirements allow. Applicants may identify a host institution or PICES will help identify hosts.

### Information required from potential host institutions

Institutions interested in hosting a PICES Visiting Scientist should provide the following information, in a short proposal describing the visiting scientist's term at the host institution:

- Help requested: mentoring in research, technology assistance, teaching, *etc.*
  - Term of service desired, including specific dates
  - Local subsistence provided
  - Language abilities desired
  - Plans by the host institution to build on the training received or assistance provided.
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### **Executive Secretary Position**

Applications are invited for a five-year appointment to the position of Executive Secretary of the North Pacific Marine Science Organization (PICES), based in Sidney, British Columbia, Canada. PICES is an international scientific organization, established by an inter-governmental [Convention](#) in 1992. The mission of PICES is to promote and coordinate marine scientific research in order to advance scientific knowledge of the temperate and sub-Arctic region of the North Pacific Ocean and its adjacent seas and of its living resources. The [PICES Strategic Plan](#) is built upon five central themes: advance scientific knowledge; apply scientific knowledge; foster partnerships; develop capacity; and ensure a progressive organization. The governments of Canada, China, Japan, Korea, Russia, and United States are the Parties to the convention. The Organization consists of the Governing Council and Science Board as well as the Finance and Administration Committee, permanent Scientific and Technical Committees, and *ad hoc* expert groups established by the Council, which meet at least once a year at the Annual Meeting. Hosting the Annual Meeting rotates among the Contracting Parties. English is the official language of the Organization.

### Duties

The Executive Secretary is the Organization's chief administrative officer and must be impartial in promoting and coordinating the interests of all Contracting Parties. The Executive Secretary is responsible for the management of the Organization's office, staff, and budget, which is presently near CND\$2 million, including CDN\$700,000 contributed equally as dues by the Contracting Parties; conducts business on behalf of the Organization; arranges meetings of the Organization and its constituent bodies and committees; prepares annual budget statements, estimates and forecasts; raises funds for priority activities of the Organization; invests funds that are surplus to immediate needs; manages the Intern Program; prepares annual financial statements, and other documents as required; handles correspondence; provides secretarial services to meetings, symposia, and conferences approved by Governing Council, prepares minutes of Governing Council and Finance and Administration Committee; prepares an annual report of the Organization for distribution to the Contracting Parties; coordinates the Organization's publication program; and supports the Organization's science program. The Executive Secretary anticipates the future needs of the Organization and prepares an analysis of options for decision by Governing Council. The successful candidate must be self-motivated and be responsible for the administration and staff of the Organization, working collaboratively with the Chairman of Council, Science Board, Scientific Committees, Working Groups, and other bodies.

The Executive Secretary is aided by a Deputy Executive Secretary, a Deputy of Administration, a Database and Web Administrator, and other staff on temporary basis.

The term of office is for five years, subject to demonstrated performance during the first two years of the term (probationary period). The term of office may be renewed at the discretion of Council. The probationary period is applicable only to the first term of office.

### Principal qualifications required

At a minimum, the successful applicant will have:

Citizenship:

- Citizenship of a PICES Contracting Party at the time of assuming the position.

Education:

- A Ph.D. in a discipline of marine or fishery science from a recognized university or demonstrated equivalent experience.

Language

- Fluency in both spoken and written English, including the ability to draft English text quickly and concisely; fluency in another language of a PICES Contracting Party would be an asset.

Experience:

- Demonstrated leadership in conducting and/or managing marine scientific research, preferably with international marine scientific programs and with marine scientists from a number of countries;
- Experience in or detailed knowledge of the operations of intergovernmental organizations;
- Significant experience in the preparation of financial budgets and management of funds;
- Significant experience in managing technical and/or administrative staff;
- Experience in the organization of large scientific conferences or symposia.

Other skills and/or abilities:

- Ability to work with all individuals equally and diplomatically and to deal appropriately and effectively with scientists from different countries, backgrounds and disciplines;
- Ability to negotiate and promote consensus in complex situations requiring tact and diplomacy while recognizing cultural differences of Contracting Parties;
- Ability to anticipate future needs of the Organization and to identify solutions, alternatives, and consequences;
- Ability to maintain sound judgment and decision making in demanding or stressful situations;
- Willingness and ability to travel internationally, as needed, but at least once a year for the PICES Annual Meeting.

Salary and Benefits

The annual salary and benefits are guided by but not limited to the host state (Canada) public service salaries for equivalent responsibilities. The current salary range is CND \$117,300 – \$137,900 plus a lump sum annual performance award of up to 12% of base salary. Starting salary will be commensurate with qualifications and experience. The salary is subject to the equivalent of Canadian income tax. The duty station for the Deputy Executive Secretary is the PICES Secretariat located at the Institute of Ocean Sciences, Sidney, British Columbia, Canada.

The Organization participates in:

1. Group Pension Plan with spouse and survivor benefits,
2. Canada Pension Plan,
3. Employment Insurance Plan,
4. British Columbia Medical Plan,
5. Group Extended Health Benefits Plan,
6. Group Dental Insurance Plan,
7. Group Long-Term Disability Plan, and
8. Group Term-Life Insurance Plan.

Non-Canadian applicants can be exempt from membership in some of the plans depending on circumstances. Cost to the successful applicant would vary depending on the exemptions.

Payment will be made for moving expenses for the employee and family to the PICES headquarters at the start of employment and return at the end of employment, in accordance with the host state public service guidelines.

Each year annual vacation leave and holidays traditionally celebrated by the host state public service, and sick leave are provided. Internationally recruited staff and their dependents are entitled to two paid calendar weeks home leave every two years.

Application Procedure

For more information about PICES, please contact the Executive Director, Dr. Alexander Bychkov, or consult the PICES website (<http://www.pices.int>).

Applications should include the following:

- Curriculum Vitae;
- A brief statement written by the applicant explaining why he/she considers him/herself to be suitable for the post;
- Copies of academic certificates or diploma;
- At least three letters of reference from individuals with a recent knowledge of the applicant's character, qualifications and experience. At least one reference is preferred from a country other than that of the applicant.

The applicant should indicate in their letter a suitable starting date; however, the starting date can be **no later than xxx**.

Applications and letters of reference must be in English, and marked "Personal and Confidential". Applications must be transmitted electronically to Dr. Laura Richards, PICES Chairman at XXX@pices.int, and received **no later than xxx**.

In-person interviews will be conducted during or just prior to the 2014 PICES Annual Meeting in Yeosu, Korea.

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**Working Group on Assessment of Marine Environmental Quality of Radiation around the North Pacific**  
(approved August 13, 2013)

Parent Committee: Marine Environmental Quality Committee

Duration: 3 years

Terms of Reference

1. Determine and compare radiological doses to North Pacific marine organisms, where data are available, from natural and anthropogenic radionuclides using existing data bases, newly acquired post-Fukushima monitoring results, and state-of-the-art dosimetric approaches.
  2. Examine the utility of applying natural and artificial (Fukushima and other sources) radionuclides as tracers of circulation, ecological transfers, biogeochemical cycling and consequences of climate change in the North Pacific, including the downstream interconnectivity.
  3. Determine the state of the science relative to assessment and mitigation of radiological impacts to marine organisms from natural and anthropogenic releases of radionuclides into the North Pacific marine environment, including a summary of peer reviewed literature and an overview of major sources and types of radiological releases into the marine environment.
  4. Foster collaboration with other expert groups, especially physical oceanographers and climate modellers, to achieve goals in items 1–3.
  5. Identify priority research requirements for knowledge gaps in items 1–3, the impacts on the marine environment from the planned expansion of nuclear facilities, other emerging nuclear issues and other sources of radionuclides in the PICES region.
  6. Promote collaboration in oceanographic studies using radio-tracer distributions and exchanging available information on environmental radioactivity, and encourage joint surveys/research among PICES member countries and international organizations.
  7. Contribute to FUTURE by producing a report on whether radioactive pollution is an additional stressor to the marine ecosystem in the North Pacific Ocean.
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**Working Group on Emerging Topics in Marine Pollution**  
(approved October 20, 2013)

Parent Committee: Marine Environmental Quality Committee

Duration: 3 years

Terms of Reference

1. Document and profile emerging marine pollution issues in the North Pacific Ocean within the PICES community by:
  - a. Convening special topic sessions and workshops on new and emerging pollutants and pollution issues;
  - b. Coordinating a series of special issues of international peer-reviewed journals based on topic sessions.

2. Compile data in support of pollution indicators describing spatial and temporal status, trends and impacts in the North Pacific Ocean in support of a contribution to the 3<sup>rd</sup> Edition of the PICES North Pacific Status Report.
  3. Strengthen partnerships to deliver special topic sessions / workshops and to publish special issues with:
    - a. Other PICES expert groups, especially those identified in the FUTURE Science Plan;
    - b. Other international organizations, including the International Council for the Exploration of the Sea (ICES), the Joint Group of Experts on the Scientific Aspects of Marine Environmental Protection (GESAMP), and the North West Pacific Action Plan (NOWPAP).
  4. Contribute to FUTURE by publishing a final report summarizing results of Working Group deliberations.
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**Study Group on Socio-Ecological-Environmental Systems**  
(approved October 20, 2013)

Parent Committee: Science Board

Duration: 1 year

Terms of Reference

1. Assemble a team of experts for all the components that make up a Social-Ecological-Environmental System (SEES) and initiate a tighter communication among the experts to understand the challenges of conducting integrated science that include the climate, marine ecosystem and human dimensions explicitly.
  2. Develop an integrated model of SEES case study for hypoxia and acidification in the coastal ocean and select a suitable focus region.
  3. Conduct a meeting at the FUTURE Open Science Meeting (April 2014) and implement the steps needed to initiate the development of the integrated model.
  4. Conduct a meeting at the PICES Annual Meeting (October 2014) to finalize a report with recommendations for how the Organization can advance in this field of coupled SEES modeling in the near future.
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**Study Group on Biodiversity Conservation**  
(approved October 20, 2013)

Parent Committee: Science Board

Duration: 1 year

Terms of Reference

1. Review the scope of key drivers of biodiversity change in the North Pacific Ocean, including, but not limited to: non-indigenous marine species, climate change, fishing, and eutrophication.
  2. Identify potential mechanisms to advance biodiversity-based scientific research and/or conservation related to drivers of biodiversity change in the North Pacific Ocean.
  3. Review the research activities, past and present, undertaken by PICES and other international organizations on biodiversity in the North Pacific Ocean.
  4. Identify opportunities for collaboration, new research opportunities for PICES, and the potential to provide science-based advice that could be used to inform decisions related to the conservation and management of biodiversity in the North Pacific Ocean.
  5. Prepare a final report that includes an assessment of the merits of establishing an expert group focused on biodiversity science within PICES, and provide recommendations on the role(s) of such a group.
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**NPAFC-PICES Study Group on Scientific Cooperation in the North Pacific Ocean**  
(approved June 18, 2013)

Parent Committee: Science Board

Duration: 1 year

Statement of Purpose

The purpose of a joint Study Group is to develop a framework of enhanced collaboration between the two organizations to achieve better and/or more rapid understanding of natural and anthropogenic variability in

marine ecosystems. The Study Group will review each organization's scientific needs and identify where similar key questions or scientific issues might be explored jointly by both organizations.

#### Terms of Reference

1. Review existing and planned scientific activities of each organization.
2. Develop a list potential areas of cooperation.
3. Convene a meeting/workshop for the following purposes:
  - a. improve understanding of the science activities of each organization;
  - b. review scientific topics from TOR (1) to identify areas of common interest;
  - c. develop a framework for cooperation between NPAFC and PICES that lists categories of joint activities and the rationale for each, including the benefits to each organization from the joint activity, and identify priorities for joint activities within categories;
  - d. recommend processes for implementing TOR (3c);
  - e. recommend approaches to develop a strategic plan for cooperation and mechanisms to periodically update that plan.
4. The Co-Chairpersons will prepare a final Study Group report for distribution by the NPAFC-PICES Secretariats by spring 2014.

#### Membership

To keep costs to a minimum and to foster rapid communication, formal membership on the Study Group will be restricted to a small equal number of key participants (4 members) from each organization. Members recommended from PICES include: Elizabeth Logerwell (FIS Committee Chairman), Hiroaki Saito (FUTURE/COVE Advisory Panel Chairman), Thomas Therriault (Science Board Chairman-elect), Skip McKinnell (PICES Deputy Executive Secretary). Members nominated by NPAFC include: Shigehiko Urawa (Science Sub-Committee Chairman), Jim Irvine (Stock Assessment Working Group Chairman), Alexander Zavolokin (Science Sub-Committee member), and Nancy Davis (NPAFC Deputy Director). The proposed chairmanship of the Study Group is shared equally by Dr. Logerwell (PICES) and Dr. Irvine (NPAFC).

#### Timelines

**April 2013** – *NPAFC* – Seek endorsement by the Committee on Scientific Research and Statistics (CSRS) at its 2013 meeting to establish a joint Study Group with PICES according to terms of reference set out in this document.

**May 2013** – *PICES* – Seek endorsement by Science Board at its 2013 inter-sessional meeting to establish a joint Study Group with NPAFC according to the terms of reference described herein.

**July 2013** – Establish the Study Group by correspondence (consensus of the Contracting Parties is needed to establish any new expert groups in PICES).

**October 2013** – Convene a formal Study Group meeting in association with PICES-2013 (although Study Group members could work initially by correspondence during the summer). If NPAFC cannot formally establish a Study Group until their November 2013 Annual Meeting, meeting at PICES-2013 could be considered as an informal meeting of potential members.

**November 2013** – *NPAFC* – Approve recommendation by CSRS to establish the Study Group at its Annual Meeting.

**Spring 2014 deadline** – *SG* – Complete the text of the framework prior to the NPAFC and PICES spring meetings.

**Spring 2014** – *PICES* – Endorse the final text of the framework at the 2014 inter-sessional Science Board meeting and recommend it for approval by Governing Council at its 2014 Annual Meeting.

**Spring 2014** – *NPAFC* – Endorse the final text of the framework at the CSRS meeting and approve it by the Commission at its 2014 Annual Meeting.

**Fall 2014** – *PICES* – Approval the final text of the framework at its Annual Meeting.

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#### **2013-2014 Standing List of International and Regional Organizations and Programs**

AMAP	Arctic Monitoring and Assessment Program
AOOS	Alaska Ocean Observing System
APEC-MRC	Marine Resources Conservation Working Group, Asia Pacific Economic Cooperation

APEC-FWG	Fisheries Working Group, Asia Pacific Economic Cooperation
APFIC	Asia-Pacific Fishery Commission
APN	Asia Pacific Network for Global Change Research
Argo*	International Program for deployment of profiling floats
BEST-BSIERP*	Bering Sea Ecosystem Study
CeNCOOS	Central and Northern California Ocean Observing System
CERF	Coastal and Estuarine Research Federation
CLIVAR*	Climate Variability and Predictability Program
ESSAS*	Ecosystem Studies of Sub-Arctic Seas
EVOSTC*	<i>Exxon Valdez</i> Oilspill Trustee Council
FUTURE EARTH	Research Initiative for Global Sustainability
FAO	Food and Agriculture Organization
GESAMP*	Group of Experts on Scientific Aspects of Marine Pollution
GOOS*	Global Ocean Observing System
IAMSLIC	International Association of Marine Science Libraries
IASC	International Arctic Science Committee
IATTC	Inter-American Tropical Tuna Commission
ICES*	International Council for the Exploration of the Sea
IMBER*	Integrated Marine Biogeochemistry and Ecosystems Research
IMO	International Maritime Organization
IOC*	Intergovernmental Oceanographic Commission
IOCCP*	International Ocean Carbon Coordinated Project
IODE	International Oceanographic Data and Information Exchange
IPCC*	Intergovernmental Panel on Climate Change
IPHC	International Pacific Halibut Commission
ISC*	International Scientific Committee for Tuna and Tuna-like Species in the North Pacific Ocean
IWC	International Whaling Commission
NAFO	Northwest Atlantic Fisheries Organization
NANOOS	Northwest Association of Networked Ocean Observing Systems System
NEAR-GOOS	North East Asian Regional Global Ocean Observing System
NOWPAP*	Northwest Pacific Action Plan
NPAFC*	North Pacific Anadromous Fish Commission
NPFC	North Pacific Fisheries Commission
NPFMC	North Pacific Fishery Management Council
NPRB*	North Pacific Research Board
PaCOOS	Pacific Coast Observing System
PAG	Pacific Arctic Group
POGO	Partnership for Observing the Global Oceans
PSC	Pacific Salmon Commission
PSG	Pacific Seabird Group
SAHFOS*	Sir Alister Hardy Foundation for Ocean Science
SAON	Sustaining Arctic Observing Networks
SCCOOS	Southern California Coastal Ocean Observing System
SCOPE	Scientific Committee on Problems of the Environment
SCOR*	Scientific Committee on Oceanic Research
SOLAS*	Surface Ocean Low Atmosphere Study
SPC	South Pacific Commission
START	South Asian Regional Committee for the System for Analysis, Research and Training
WCPFC	Commission for the Conservation and Management of Highly Migratory Fish Stocks in the Western and Central Pacific Ocean
WCRP	World Climate Research Programme
WESTPAC*	Cooperative Study of the Western Pacific, IOC Sub Committee for the Western Pacific
WPFMC	Western Pacific Fishery Management Council