

# REPORT OF GOVERNING COUNCIL MEETINGS

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The Governing Council met from 1530-1730 on October 23, from 1530-1800 on October 27, and from 1000-1300 on October 28, under the chairmanship of Dr. Hyung-Tack Huh. Drs. Alexander S. Bychkov and Stewart (Skip) M. McKinnell served as rapporteurs.

All Contracting Parties were represented at the three sessions (*GC Endnote 1*). The Chairman of the Science Board, Ms. Patricia Livingston, was in attendance during part of each session.

## **Agenda Item 1. Opening remarks**

At the first session, the Chairman welcomed the delegates and noted that for this Annual Meeting Mr. Qian-Fei Liu represented Mr. Zheng-Ping Tang (China); Dr. Tadashi Inada represented Dr. Makoto Kashiwai (Japan); Mr. Takayuki Koike represented Mr. Yukiya Amano (Japan); and Dr. Jin-Yeong Kim represented Mr. Jae-Man Yoo (Korea).

## **Agenda Item 2. Adoption of agenda**

The Chairman reviewed the agenda (*GC Endnote 2*) and suggested the order in which to take up the various items. Dr. William G. Doubleday proposed the adoption of the agenda without changes, seconded by Dr. Lev N. Bocharov. This report summarizes the treatment of each agenda item during the course of the three sessions.

## **Agenda Item 3. Preliminary Report on Administration**

The Executive Secretary summarized the activities of the Organization and the Secretariat since the PICES Eighth Annual Meeting (*GC Endnote 3*).

## **Agenda Item 4. Relations with relevant international organizations**

At the Eighth Annual Meeting, Council endorsed the annual revision of the Standing List

of International Organizations and Programs, and a selected subset of organizations and programs that are considered to have the highest priority for PICES with respect to scientific cooperation in the year 2000 (Decision 99/S/6). The Science Board Chairman and Executive Secretary reported on interactions with the relevant organizations and programs since last year's meeting (see the Report on Administration and Science Board Report for details). Council noted significant progress in relations with the IGBP Core Projects (GLOBEC and JGOFS), ICES, and regional fisheries organizations, especially NPAFC. Canada suggested the importance of collaborating with CLIVAR, GOOS and ARGO because it integrates PICES activities with global climate change programs.

Council approved the revised list of International Organizations and Programs recommended by Science Board and identified priorities for interaction in 2001 (see Decision 00/S/5 and *GC Appendix C* for details).

Letters of invitation to attend PICES IX were sent to inter-governmental and non-governmental organizations, and scientific programs on the agreed Standing List of Organizations and Programs, and the following sent observers:

Global Ocean Observing System (GOOS) -  
Dr. Ned Cyr  
Global Ocean Ecosystem Dynamics (GLOBEC)  
- Dr. Francisco Werner  
International Argo Science Team - Dr. Dean  
Roemmich  
International Council for the Exploration of the  
Sea (ICES) - Dr. Keith Brander  
International Geosphere-Biosphere Program  
(IGBP) - Dr. Manuel Barange  
International Pacific Halibut Commission  
(IPHC) - Dr. Stephen R. Hare  
Intergovernmental Oceanographic Commission  
(IOC) - Dr. Ned Cyr

IOC Sub-Commission for the Western Pacific (WESTPAC) - Dr. Maarten Kuijper  
Joint Global Ocean Flux Study (JGOFS) - Dr. Toshiro Saino  
North Pacific Anadromous Fish Commission (NPAFC) - Dr. Vladimir Karpenko  
Scientific Committee on Oceanic Research (SCOR) - Dr. Shizuo Tsunogai

**Agenda Item 5. Membership and observers from other countries**

The Secretariat did not receive proposals from non-member countries to accede to the PICES Convention in 2000.

At the Eighth Annual Meeting, Council adopted the resolution reflecting an interest in having Mexico accede to the PICES Convention and instructed the Chairman to pursue this matter by sending a letter to appropriate authorities in the Mexican Government, and by making high-level personal contacts (see Decision 99/A/5). The Executive Secretary reported that this approach was reconsidered as during discussions at the Beyond El Niño Conference in La Jolla last March, leading Mexican scientists strongly suggested postponing of a formal invitation/communication process at the government level until new people are appointed at the relevant agencies following the election in Mexico. This will likely occur in March-April 2001. It was recommended that the most appropriate way to start the process before the end of the current six-year government period is inviting directors of major research institutions to the PICES Ninth Annual Meeting. Some of these directors are appointed by independent mechanism (other than the general government change) and should remain in their positions for several more years. They can appreciate the importance and relevance of PICES and, through next year, encourage government officials to initiate formal approach.

In August 2000, Dr. Francisco Javier Mendieta Jimenez (Director General, Centro de Investigacion Cientifica y Ensenanza Superior de Ensenada/Centre of Scientific Investigations

(CICESE)), Dr. Mario Martinez Garcia (Director General, Centro de Investigaciones Biologicas del Noroeste/Centre of Biological Investigations (CIBNOR)), and Dr. Adolfo Gracia Gasca (Director General, Circuito Exterior s/n Ciudad Universitaria) were invited as observers from Mexico to attend the PICES Ninth Annual Meeting. Responses from CICESE and CIBNOR were received, both expressing great interest in PICES activities and in maintaining direct contact with PICES. On behalf of CICESE's Director General, Dr. Jesus Paniagua explained that due to financial and other constraints, CICESE could not send a representative to participate in the PICES Annual Meeting, and extended a formal invitation for PICES officers to visit this largest oceanographic institute in Mexico. Dr. Garcia indicated that he is unable to participate personally, but Dr. Sergio Hernandez Vazques, Director of the CIBNOR Graduate Program, will be representing him at the meeting.

The Chairman recommended that Dr. Hernandez should sit in as an observer at the Council and F&A meetings, and that proposal was accepted by Council. Dr. Hernandez thanked Council members for allowing him to observe and confirmed the interest of Mexican scientists to join PICES and suggested that the next step should be to hold a meeting in Mexico, in spring 2001, involving the directors and leading scientists from major Mexican research institutions and PICES representatives.

In response to this invitation from Mexico, Council approved a visit of the Science Board Chairman and the Executive Secretary to inform Mexican scientists and scientific organizations about PICES. Official negotiations with the Mexican Government will be pursued if sufficient interest is expressed (Decision 00/A/6).

The Executive Secretary informed Council that Mexican scientists had continued to be involved in PICES activities. Seventeen scientists attended the Beyond El Niño (BEN) Conference

on Pacific Climate Variability and Marine Ecosystem Impacts organized by PICES (March 23-26, 2000, La Jolla, U.S.A.), three of which received partial travel support from the BEN grant provided by SCOR. Dr. Daniel Lluch-Belda (CICIMAR) served as one of the session convenors for this conference. Two Mexican scientists submitted papers for PICES IX.

#### **Agenda Item 6. Proposed changes to Handbook for Chairmen and Convenors**

At the Eighth Annual Meeting, the Science Board identified seven major categories of changes that should be made to the PICES Handbook for Chairmen and Convenors (see Science Board Report for details). The proposed changes, drafted by the Science Board Chairman, were discussed and revised during PICES IX at the Committees/Program business meetings. Council reviewed the changes accepted by the Science Board and found that they were consistent with the existing Rules of Procedure and Financial Regulations. Council approved the recommended changes to the Handbook with minor editorial modifications (Decision 00/A/7).

#### **Agenda Item 7. PICES Intern Program**

Council discussed the results from the first year of the PICES Intern Program approved at the Eighth Annual Meeting (Decision 99/A/7), and concluded that PICES and member countries benefit from the Intern Program, and that it should be continued.

Council reviewed the Guidelines for application and selection procedure and at the recommendation of U.S.A., adopted the following amendment (Decision 00/A/8(i)):

*A member country that has had an intern in any year is eligible to have an intern in the following two years only if there are no applicants from other member countries.*

The Executive Secretary reported that no nominations for PICES Intern in 2001 were

received from the national Delegates by the date of the first Governing Council meeting at PICES IX (October 23, 2000), but several member countries indicated a desire to submit nominations. Council approved that the deadline for applications for the Intern Program be extended to February 1, 2001 (Decision 00/A/8(ii)).

PICES was able to start the Intern Program in 2000 because Canada and U.S.A., in addition to their annual fees, contributed \$7,500 and \$7,000, respectively, to the Trust Fund to finance the Program. At the moment, there is no special allocation for the Intern Program in the proposed FY 2001 budget or FY 2002 forecast budget. Permanent funding for the Intern Program requires replenishing the Trust Fund on a regular basis or developing some other mechanism to support it. Council debated various approaches to finance the Program. Dr. Doubleday, without making firm commitments, confirmed a willingness of Canada to contribute in 2001 if funds become available at their fiscal year end, but indicated that Canada does not intend to be the sole contributor indefinitely and suggested that the PICES Intern Program should gradually be built into the annual budget. Council did not reach a consensus on this proposal and member countries will continue to consider ways to fund the Program. The Chairman will send letters inviting voluntary contributions to support the Intern Program in 2001 and further (Decision 00/A/8(iii)).

#### **Agenda Item 8. Report of Fund-Raising Committee**

The Fund-Raising Committee (FRC) was established in 1999 to seek external funding consistent with the goals of the Organization (Decision 99/A/8). It was assumed that FRC will operate by correspondence, but the Committee members agreed that to commence and facilitate its activities, FRC should meet during the Ninth Annual Meeting. The first meeting of the Fund-Raising Committee was held Oct. 22, 2000 under the chairmanship of Dr. Richard J. Marasco, who presented the

report to the Governing Council (see FRC Report for text).

The Committee worked closely with the Science Board and the Secretariat to identify high priority scientific projects requiring funding/additional support. Council approved the theme recommended by the Fund-Raising Committee, "To advance scientific knowledge of the ocean environment", and the following six projects that were proposed for attention in 2001 (Decision 00/A/9):

- Develop a North Pacific Ecosystem Status Report;
- Establish an international zooplankton monitoring program for the North Pacific;
- Convene a Workshop/Symposium series on "Effect of human and climate interaction on fish production";
- Initiate capacity building on marine ecosystems;
- Support young scientist participation in scientific meetings; and
- Friends of PICES: acquisition of funds that could be used by the Organization to support various programmatic activities.

#### **Agenda Item 9. Tenth Anniversary of PICES**

The Convention for a North Pacific Marine Science Organization entered into force on March 24, 1992, and the PICES First Annual Meeting was held in October 1992, in Victoria, Canada. The Tenth Annual Meeting will be hosted by the Secretariat at the location of PICES I, in October 2001 (Decision 99/A/4).

Council discussed and approved various activities being planned to commemorate the anniversary (see F&A Report for details). The FY 2001 budget does not include these items, and voluntary contributions and funds obtained from the 2001 Ocean Exhibition should be used to cover potential costs for special events associated with PICES X (Decision 00/A/5). The Executive Secretary will send a request to member countries and agencies for voluntary

contributions to support the Tenth Annual Meeting and activities related to the PICES' tenth anniversary.

#### **Agenda Item 10. Election of Chairman and Vice-Chairman**

According to the Rules of Procedure (Rule 7), the Chairman and the Vice Chairman shall be elected from amongst the Delegates for a term of two years and each shall be eligible for re-election only once for a successive term. They shall take office at the conclusion of the Annual Meeting at which elected. Dr. Hyung-Tack Huh of Korea and Dr. Vera Alexander of U.S.A. were elected the Chairman and Vice-Chairman, respectively, at the PICES Seventh Annual Meeting, in 1998, and their terms would come to an end at this year's meeting.

Dr. Alexander replaced Dr. Huh as Chairman to call for nominations for Chairman of Council. A single candidate, Dr. Hyung-Tack Huh, was nominated and unanimously declared as Chairman for a second term (Decision 00/A/10).

Dr. Huh called for nominations for Vice-Chairman of Council in accordance with the Rules of Procedure. Dr. Vera Alexander was nominated by Russia and seconded by Canada. She was unanimously elected as Vice-Chairman for a second term (Decision 00/A/10).

Delegates congratulated Dr. Huh and Dr. Alexander on their re-election. Dr. Huh and Dr. Alexander expressed their thanks for the support given by Council.

#### **Agenda Item 11. Appointment of Finance and Administration Committee Chairman**

According to the Rules of Procedure (Rule 15), the Chairman of the Finance and Administration Committee (F&A) shall be appointed by the Council from amongst the Committee's members for a term of two years and shall be eligible for re-appointment only once for a

successive term. He/she shall take office at the conclusion of the Annual Meeting at which elected. Dr. Richard J. Marasco of U.S.A. was appointed as the F&A Chairman at the PICES Seventh Annual Meeting, in 1998, and his term would come to an end at this year's meeting.

The Finance and Administration Committee advocated that Council re-appoint Dr. Marasco for a second term. Council accepted this proposal and re-appointed Dr. Marasco as the F&A Chairman (Decision 00/A/11).

### **Agenda Item 12. Report and recommendations of the Finance and Administration Committee**

The Finance and Administration Committee met under the chairmanship of Dr. Richard J. Marasco, who presented the report to the Governing Council (see F&A Report for text). The report was approved by Council.

#### **12.1 Audited accounts for fiscal year 1999**

At the recommendation of the Finance and Administration Committee, Council accepted the audited accounts for 1999. Council agreed to retain the existing auditor *Flader & Greene* for another year (Decision 00/A/1).

#### **12.2 Annual contributions**

Council discussed the payment schedule of annual fees to the Organization, and approved the recommendation that the Executive Secretary send a letter to member countries commending them for improved performance in submitting annual contributions in 2000, and advising on the benefits of paying contributions by the first day of the PICES fiscal year (January 1), as required by Regulation 5(ii) of the Financial Regulations (Decision 00/A/3).

At the suggestion of Canada, Council agreed to allow installment payments if members are unable to make single payments at the beginning of the year.

### **12.3 Budget**

#### **12.3a Estimated accounts for fiscal year 2000**

The estimated accounts for FY 2000 were reviewed by the Finance and Administration Committee and approved by Council (Decision 00/A/2).

#### **12.3b Budget for fiscal year 2001**

Council approved the proposed FY 2001 budget of \$606,000. The amount of \$58,200 will be transferred from the Working Capital Fund to the General Fund to reduce the total required contribution to \$547,800, setting the 2001 fees at \$91,300 per Contracting Party (Decision 99/A/2(i)).

#### **12.3c Forecast budget for fiscal year 2002**

The FY 2002 forecast budget of \$624,000 was prepared under guidelines adopted by Council in 1999 and presented as an information item for Contracting Parties. It will be further considered at PICES X (Decision 99/A/2(ii)).

#### **12.3d Working Capital Fund**

Council noted that in FY 2000, external funding for various activities initiated by PICES was significantly greater than in previous years, and thanked the Science Board Chairman and the Secretariat for their effective fund-raising efforts. Voluntary contributions and grants received this year for financing special activities and credited to the Working Capital Fund are reflected in the Report on Administration (*GC Endnote 3*)

The Working Capital Fund is forecast to be \$228,230 at the end of 2000. Council approved a transfer of \$58,200 to the General Fund to reduce the fees for each Contracting Party, and a transfer of \$23,740 to the Trust Fund to recover all 2000 expenditures and restore the Trust Fund to a level of \$100,000. After these transfers, the Working Capital Fund will total \$146,290, including the \$100,000 mandatory balance and

the amount of \$46,290 to be used to cover potential costs for events being planned to commemorate the PICES Tenth Anniversary (Decision 00/A/2(iii)).

### **12.3e Home Leave and Relocation Fund**

The status of the Home Leave Relocation Fund was reviewed. It was noted that all expenditures in FY 2000 were offset by bank interest earned by the Fund. The Fund will be at its maximum level of \$110,000 at the end of the fiscal year.

### **12.3f Trust Fund**

Council was pleased by the fact that this year the Trust Fund was used not only to bring Chinese, Russian and young scientists to the Annual Meeting, but for a variety of activities. These included a partial support for the pilot project on “Ecosystem Study of the Japan/East Sea” (PICES JES cruise), a research grant to Working Group 12, and financing the Intern Program. The 2000 expenditures will be compensated only partially by the voluntary contributions by Canada and U.S.A. for the Intern Program, a personal contribution by Dr. Hyung-Tack Huh, and a grant from SCOR for PICES IX (for details see *GC Endnote 3*).

The Trust Fund is forecast to be \$76,260 at the end of 2000. The approved transfer of \$23,740 from the Working Capital Fund will recover all 2000 expenditures and restore the Trust Fund to a level of \$100,000 (Decision 00/A/3(iii)). Working Capital Fund surpluses have permitted the Trust Fund to be replenished for the last several years. Council confirmed that the practice of transferring surpluses from the Working Capital Fund to the Trust Fund should continue in future years. Simultaneously, PICES should explore other options for the Trust Fund replenishment, or activities that are currently supported by the Trust Fund will need to be reduced accordingly.

## ***GC Appendix A. Decisions***

### **Agenda Item 13. Report and recommendations of Science Board**

The Science Board met under the chairmanship of Ms. Patricia Livingston, who presented the report to the Governing Council (see Science Board Report for text). Council approved the Science Board Report. Details are given in the Appendices A-D.

### **Agenda Item 14. Time and place of future Annual Meetings of the Organization**

At the recommendation of the Finance and Administration Committee and Science Board, Council reconsidered dates for the Tenth Annual Meeting in Victoria, Canada, and agreed that the meeting be held October 5-13, 2001 (Decision 00/A/4(i)).

Council approved the proposal by the People’s Republic of China to host the Eleventh Annual Meeting in 2002. The date and the place of PICES XI will be confirmed at next year’s Annual Meeting. The Executive Secretary will send a letter indicating a willingness to provide \$40,000 to partially cover meeting costs for PICES XI. Further discussion on this matter will proceed during the 2002 budget preparation (Decision 00/A/4(ii)).

Council accepted the proposal of the Republic of Korea to explore the possibility of hosting the Twelfth Annual Meeting in 2003, and notify PICES on its final decision by the end of 2000 (Decision 00/A/4(iii)).

### **Agenda Item 15. Other business**

Russia proposed that Council consider forming an Editorial Group to speed up Council’s work at the Annual Meeting.

#### **00/A/1: Auditor**

Council accepted the audited accounts for 1999 and agreed to retain *Flader and Greene* as auditor for another year.

#### **00/A/2: Budget**

Council accepted the estimated accounts for 2000 and agreed to the following actions:

- i. *2001 Budget*  
The budget of \$606,000 was approved. The amount of \$58,200 will be transferred from the Working Capital Fund to reduce the total required contribution to \$547,800, setting the 2001 fees at \$91,300 per Contracting Party.
- ii. *Forecast 2002 Budget*  
The forecast budget for 2002 was reviewed and will be further considered at PICES X.
- iii. *Inter-fund Transfers*  
A transfer of \$58,200 from the Working Capital Fund to the General Fund for 2001 was approved. A transfer of \$23,740 from the Working Capital Fund to the Trust Fund was approved to recover all 2000 expenditures and restore the Trust Fund to a level of \$100,000. After these transfers, the Working Capital Fund will total \$146,290, including the \$100,000 mandatory balance and \$46,290 in voluntary contributions for PICES X Anniversary.

#### **00/A/3: Annual contributions**

The Executive Secretary will send a letter to member countries commending them for improved performance in submitting annual contributions in 2000, and advising on the benefits of paying contributions by the first day of the PICES fiscal year (January 1), as required by Financial Regulations 5(ii).

Council agreed to allow installment payments if annual fees cannot be paid in a lump sum at the beginning of the year.

#### **00/A/4: Future Annual Meetings**

- i. Council agreed to hold the Tenth Annual Meeting in Victoria, Canada, from October 5-13, 2001.
- ii. Council approved the proposal by the People's Republic of China to host the Eleventh Annual Meeting in 2002. The date and the place of PICES XI will be confirmed at next year's Annual Meeting. The Executive Secretary will send a letter indicating a willingness to provide \$40,000 to partially cover meeting costs for PICES XI. Further discussion on this matter will proceed during the 2002 budget preparation.
- iii. Council accepted the proposal of the Republic of Korea to explore the possibility of hosting the Twelfth Annual Meeting in 2003, and expect to be notified of the final decision by the end of 2000.

#### **00/A/5: PICES Tenth Anniversary**

Council endorsed the proposed special events related to the Tenth Annual Meeting (see *F&A Report* for details). Voluntary contributions and funds obtained from the 2001 Ocean Exhibition will be used to support these activities.

#### **00/A/6: Membership**

In response to an invitation from Mexico, Council approved a visit of the Science Board Chairman and the Executive Secretary to Mexico to inform scientists and scientific organizations about PICES. Official negotiations with the Mexican Government will be pursued if sufficient interest is expressed.

#### **00/A/7: Changes to Handbook for Chairmen and Convenors**

Council approved the changes to the PICES Handbook for Chairmen and Convenors proposed by the Science Board.

#### **00/A/8: PICES Intern Program**

- i. The following amendment to Guidelines for application and selection procedure was adopted:

*A member country that has had an intern in any year is eligible to have an intern in the following two years only if there are no applicants from other member countries.*

- ii. Council approved that the deadline for applications for the 2001 PICES Intern Program be extended to February 1, 2001.
- iii. Council agreed to ask the Chairman to send letters inviting member countries to make voluntary contributions to support the PICES Intern Program in 2001.

#### **00/A/9: Fund-Raising Committee**

Council approved the theme adopted by the Fund-Raising Committee, "To advance scientific knowledge of the ocean environment", and six projects identified for attention during 2001 (see *FRC* and *F&A Reports* for details).

#### **00/A/10: Election of Chairman and Vice Chairman**

Dr. Hyung-Tack Huh of Korea and Dr. Vera Alexander of U.S.A. were elected as Chairman and Vice-Chairman, respectively, for a second term.

#### **00/A/11: Appointment of Finance and Administration Committee Chairman**

Dr. Richard J. Marasco of U.S.A. was appointed as the Chairman of the Finance and

Administration Committee for a second term.

#### **00/S/1: Inter-sessional meetings, Working Group and CCCC Program workshops**

The following inter-sessional meetings, Working Group and CCCC Program workshops are to be convened (see Acronym List at the end of the Annual Report):

- a. A WG 13/TCODE CO<sub>2</sub> Data Integration Test Workshop, January 22-24, 2001, Sidney, B.C., Canada;
- b. A BASS/MODEL Workshop on "Quantification of a food web model for the eastern Pacific gyre", March 5-6, Honolulu, Hawaii, U.S.A.;
- c. A Workshop on "Impact of climate variability on observation and prediction of ecosystem and biodiversity changes in the North Pacific" (co-sponsored by the Census of Marine Life (through the Alfred P. Sloan Foundation) and the International Pacific Research Center), March 7-9, 2001, Honolulu, Hawaii, U.S.A.;
- d. An International Argo Science Team Meeting (co-sponsored by PICES), March 20-22, 2001, Sidney, B.C., Canada;
- e. WG 13/TCODE CO<sub>2</sub> Data Integration Implementation Workshop, May 14-16, 2001, in Tokyo, Japan;
- f. A MODEL Workshop to implement improvements to the PICES NEMURO Model, spring/summer 2001, Japan or U.S.A.;
- g. A NEAR-GOOS/ODC Forecasting Workshop (co-sponsored by PICES), August 2001, Seoul, Korea (in conjunction with the Fifth IOC/WESTPAC Scientific Symposium);
- h. A WG 15 Workshop on "Taxonomy and identification of HAB species", October 5-6, 2001, Vancouver, B.C. Canada (in conjunction with PICES X);
- i. A BASS/MODEL Workshop to review ecosystem models for the Subarctic Pacific gyres, a MODEL/REX Workshop to implement improvements and to include higher trophic levels to the PICES



NEMURO Model, and a REX Workshop on "Temporal variations in size at age for fish species in coastal areas around the Pacific Rim", October 2001 (immediately prior to PICES X), Victoria, B.C., Canada;

- j. A 1-day CLIVAR/PICES Workshop, October 2001 (immediately prior to PICES X), Victoria, B.C., Canada;
- k. A PICES/CREAMS/ONR Workshop on "Recent progress in studies of physical processes and their impact to the Japan/East Sea ecosystem", spring 2002;
- l. A PICES/ICES/GLOBEC International Symposium on "The role of zooplankton in global ecosystem dynamics: comparative studies from the World Oceans", spring 2003, Europe.

#### **00/S/2: Travel support**

PICES will provide full travel support (or equivalent) for:

- a. One keynote speaker for the PICES X Opening Session and four invited speakers for the Science Board Anniversary Symposium;
- b. One invited speaker per Scientific Committee and Program for topic sessions at the PICES Tenth Annual Meeting;
- c. Five scientists to attend various CCCC Task Team Workshops;
- d. One invited scientist with expertise in molecular biology of phytoplankton to attend the WG 15 Workshop on "Taxonomy and identification of HAB species", October 5-6, 2001, in Vancouver, B.C. Canada;
- e. One WG 16 member to attend the American Fisheries Society Symposium on "Climate and aquatic biological resources", August, 2001, U.S.A.;
- f. One Japanese and two North American scientists to attend the WG 13/TCODE CO<sub>2</sub> Data Integration Test Workshop, January 22-24, 2001, in Sidney, B.C., Canada;
- g. Two scientists to attend the International Argo Science Team Meeting, March 20-22, 2001, in Sidney, B.C., Canada;
- h. Two scientists to attend the NEAR-

GOOS/ODC Forecasting Workshop, August 2001, in Seoul, Korea;

- i. One person to attend the SCOR General Meeting in October 2001, in Mar Del Plata, Argentina.

#### **00/S/3: Publications**

The following publications were approved for 2001:

- a. Final reports of WG 8 on Practical Assessment Methodology (with CD-ROM) and WG 12 on Crabs and Shrimps, Proceedings of the 2000 CCCC Task Team Workshops, and Report of the PICES Census of Marine Life Workshop in the PICES Scientific Report Series;
- b. Progress reports of WG 13 on CO<sub>2</sub> in the North Pacific, WG 14 on Effective Sampling of Micronekton, WG 15 on Ecology of Harmful Algal Blooms in the North Pacific, and WG 16 on Climate Change, Shifts in Fish Production, and Fisheries Management in the 2000 Annual Report;
- c. Selection of papers presented at the Beyond El Niño Conference in a special issue of *Progress in Oceanography*;
- d. Proceedings of the North Pacific CO<sub>2</sub> Data Synthesis Symposium in a report published by the Center for Global Environmental Research (CGER) of the National Institute for Environmental Studies, Japan, and in the PICES Scientific Report Series;
- e. Review and results from the 1999 and 2000 PICES method inter-comparisons for carbonate parameters in a bilingual (Japanese/English) report published by the Center for Global Environmental Research (CGER) of the National Institute for Environmental Studies, Japan, and in the PICES Scientific Report Series.

#### **00/S/4: Future of current Working Groups and new PICES groups**

- a. WG 8 on Practical Assessment Methodology has completed its work and will be

- disbanded;
- b. WG 12 on Crabs and Shrimps will remain for one more year to complete collation, editing and publication of its final report in 2001 (no further meetings of the Working Group are required);
  - c. WG 13 on CO<sub>2</sub> in the North Pacific will conclude its work in 2001 and prepare a final report for publication in 2002;
  - d. WG 14 on Effective Sampling of Micro-nekton, WG 15 on Ecology of Harmful Algal Blooms in the North Pacific, and WG 16 on Climate Change, Shifts in Fish Production, and Fisheries Management will remain for two more years;
  - e. A 1-year Study Group will be organized to consider the needs for implementation of the North Pacific Ecosystem Status Report and Regional Analysis Centers (see *Appendix B* for terms of reference). Membership in the group shall consist of the Science Board Chairman, one representative from each of the Scientific and Technical Committees and Scientific Program, one representative of the GOOS community and one member of the PICES Secretariat.

**00/S/5: Relations with other organizations and programs**

The annual revision of the Standing List of International Organizations and Programs was endorsed in order to facilitate relations with other organizations and programs, and to

identify priorities for interaction in the coming year (see *Appendix C* for the revised list).

**00/S/6: PICES Wooster Award**

Council approved the establishment of the annual PICES Wooster Award. The Award is named in honour of Professor Warren S. Wooster, the principal founder and the first Chairman of PICES, and a world-renowned researcher and statesman in the area of climate variability and fisheries production. (See *Appendix D* for details).

**00/S/7: Resolution on assisting monitoring activities in the PICES region**

The following resolution adopted by the Science Board was approved:

*Two PICES pilot projects using voluntary observing ships (VOS) in the North Pacific to monitor physical, chemical and biological parameters have had good results. PICES supports these projects and their continuation. Recognizing the urgent need for basin scale monitoring, beyond that encompassed within the existing programs, Science Board encourages the development of observing programs with dense regional coverage of parameters using VOS and similar cost-effective ecosystem observing systems. PICES will develop procedures for promoting such programs under its monitoring framework.*

***GC Appendix B. Terms of Reference for the Study Group on North Pacific Ecosystem Status Report and Regional Analysis Centers (RAC)***

1. Devise a detailed outline for the first North Pacific Ecosystem Status Report;
2. Identify key contributors (individuals and organizations) to the Report;
3. Identify existing data sources for inclusion in the Report;
4. Examine the process and implications of how those data would be synthesized into the Report;
5. Estimate the production, printing, and distribution costs of the document;
6. Examine the function, products and positive and negative implications of RACs.

### *GC Appendix C. Revised Standing List of International Organizations and Programs*

PICES is expanding its relationships with international scientific organizations and programs around the world. At the same time, there is the need to improve integration, coordination, and communication with regional scientific research efforts in the North Pacific that are aligned with the PICES ecosystem research focus. These regional programs may involve several PICES member countries and cover international areas of high ecological importance. Annually, the Science Board

examines and revises the Standing List of International Organizations and Programs. Additionally, it selects a subset of organizations and programs that are considered to have the highest priority (marked by \*) for PICES with respect to scientific cooperation and facilitation in the coming year. This list will be used in part to assist the Executive Secretary and Science Board in decisions regarding travel to meetings of other international organizations.

ACIA	Arctic Climate Impact Assessment Program (ACIA of AMAP)
AMAP*	Arctic Monitoring and Assessment Program (AMAP)
APEC	Marine Resources Conservation WG (MRC), Asia Pacific Economic Cooperation
APFIC	Asia-Pacific Fisheries Commission
Argo*	International Program for deployment of profiling floats (linked with GOOS)
CLIVAR*	Climate Variability and Predictability
CREAMS*	Circulation Research in the East Asian Marginal Seas
ECOR	Engineering Committee on Oceanic Resources
FAO	Food and Agriculture Organization
GESAMP	Group of Experts on Scientific Aspects of Marine Pollution
GIPME	Global Investigation of Pollution in the Marine Environment
GLOBEC*	Global Ocean Ecosystem Dynamics
GOOS*	Global Ocean Observing System
IASC	International Arctic Science Committee
IATTC*	Inter-American Tropical Tuna Commission
ICES*	International Council for the Exploration of the Sea
ICSU	International Council of Scientific Unions
IGBP*	International Geosphere-Biosphere Program
IGOSS	Integrated Global Ocean Services System
IOC*	Intergovernmental Oceanographic Commission
IODE	International Oceanographic Data and Information Exchange
IPHC*	International Pacific Halibut Commission
ISCTNP*	Interim Scientific Committee for Tuna and Tuna-like Species in the North Pacific Ocean
JGOFS*	Joint Global Ocean Flux Study
NAFO	North Atlantic Fisheries Organization
NASCO	North Atlantic Salmon Conservation Organization
NEAR-GOOS*	North East Asian Regional GOOS
NOWPAP	Northwest Pacific Action Plan
NPAFC*	North Pacific Anadromous Fish Commission
PSC	Pacific Salmon Commission
SCOPE	Scientific Committee on Problems of the Environment
SCOR*	Scientific Committee on Oceanic Research
SPC	South Pacific Commission
SPREP	South Pacific Regional Environmental Program
START	South Asian Regional Committee for the System for Analysis, Research and Training

UNEP	United Nations Environment Program
WCRP	World Climate Research Program
WESTPAC*	Cooperative Study of the Western Pacific, IOC Sub Committee for the Western Pacific
WMO	World Meteorological Organization
WOCE	World Ocean Circulation Experiment

2000 Additions to list:

AFS CAR*	American Fisheries Society Program on Climate and Aquatic Resources
CoML*	Census of Marine Life Program
GCOS*	Global Climate Observing System
GEM*	Gulf Ecosystem Monitoring Program
IPCC*	International Panel on Climate Change
PSG	Pacific Seabird Group
PORSEC	Pacific Ocean Remote Sensing Conference
SAHFOS*	Sir Alister Hardy Foundation for Ocean Science

***GC Appendix D. PICES Wooster Award***

The PICES Wooster Award is named in honour of Professor Warren S. Wooster, the principal founder and the first Chairman of PICES, and a world-renowned researcher and statesman in the area of climate variability and fisheries production. The Award will be given annually to an individual who has made significant scientific contributions to North Pacific marine science, such as understanding and predicting the role of human and climate interactions on marine ecosystem production.

The Award will consist of a plaque with the recipient’s name engraved on it. A large plaque will be maintained at the PICES Secretariat with the names of all the Award winners over the years. The recipient will also receive financial support to attend the PICES Annual Meeting at which the Award is given.

The main criteria for choosing recipients are sustained excellence in research, teaching, administration or a combination of the three in the area of North Pacific marine science. Special consideration will be given to

individuals who have worked in integrating the disciplines of marine science. Individuals who were or are currently actively involved in PICES activities are preferred but the Award may be given to any suitable candidate, including those from outside PICES member countries.

Nominations will be solicited annually from the PICES community although the award may not be given every year if a suitable candidate is not found. Nominations must be received no later than May 1 of each year. The Selection Committee will consist of the PICES Science Board and the PICES Chairman, and the Award will be given by the PICES Chairman at a banquet during the PICES Annual Meeting. Nominations of individuals not selected would be rolled over to the next year in order to keep a large pool of potential candidates.

Nominations should include the following information: nominee’s name, institutional affiliation and title, address and biographical resume, and statement of justification for the nomination.

**GC Endnote 1**

**Participation List**

### Canada

William G. Doubleday  
Laura Richards

### Japan

Tadashi Inada (Alternate Delegate)  
Takayuki Koike (Alternate Delegate)  
Koji Harunari (Advisor)  
Tokio Wada (Advisor)

### People's Republic of China

Qian-Fei Liu (Alternate Delegate)  
Zheng-Lin Wei (Alternate Delegate)

### Republic of Korea

Lae-Hyung Hong (Alternate Delegate)  
Jin Yeong Kim (Alternate Delegate)

### Russian Federation

Lev N. Bocharov  
Alexander A. Kurmazov (Advisor)  
Igor I. Shevchenko (Advisor)

### U.S.A.

Vera Alexander  
Richard J. Marasco  
William T. Cocke (Advisor)

### Others

Hyung-Tack Huh (Chairman, PICES)  
Alexander S. Bychkov (Executive Secretary) (Rapporteur)  
Stewart M. McKinnell (Asst. Executive Secretary) (Rapporteur)  
Patricia Livingston (Chairman, Science Board)  
Sergio Hernandez Vazquez (Observer, Mexico)

## **GC Endnote 2**

### **Agenda**

1. Opening remarks.
2. Adoption of agenda.
3. Preliminary report on administration.
4. Relations with relevant international organizations.
5. Membership and observers from other countries.
6. Proposed changes to Handbook for Chairmen and Convenors.
7. PICES Intern Program.
8. Report of Fund-Raising Committee.
9. Tenth anniversary of PICES.
10. Election of Chairman and Vice-Chairman.
11. Appointment of Finance and Administration Committee Chairman.
12. Report of Finance and Administration Committee:
  - 12.1 Audited accounts for FY 1999;
  - 12.2 Annual contributions;
  - 12.3 Budget:
    - a. Estimated accounts for FY 2000
    - b. Budget for FY 2001
    - c. Forecast budget for FY 2002
    - d. Working Capital Fund
    - e. Home Leave and Relocation Fund
    - f. Trust Fund
13. Report of Science Board.
14. Time and place of future Annual Meetings of the Organization.
15. Other business.

## **GC Endnote 3**

### **Report on Administration for 2000**

#### **1. National contributions**

According to Financial Regulation 5(ii), all national contributions to PICES are payable by

the first day of the financial year (January 1) to which they relate. Dues for 2000 were paid as follows:

Japan	November 30, 1999
U.S.A.	January 18, 2000
Canada	February 9, 2000
Korea	June 1, 2000
China	August 29, 2000
Russia	November 2, 2000

## 2. External funding

This year serious efforts have been made to get outside funding for various activities initiated by PICES. The following reflects contributions and grants received or under consideration:

- a. Five organizations, Inter-American Tropical Tuna Commission (IATTC), International Pacific Halibut Commission (IPHC), Interim Scientific Committee for Tuna and Tuna-like Species in the North Pacific (ISC), North Pacific Anadromous Fish Commission (NPAFC) and Scientific Committee on Oceanic Research (SCOR)), contributed a total of \$73,000 for the *Beyond El Niño Conference on Pacific Climate Variability and Marine Ecosystem Impacts* that was held in March 2000;
- b. SCOR provided a grant of \$13,340 (US \$9,000) to support travel of Chinese and Russian scientists to the PICES Ninth Annual Meeting;
- c. The Chairman of PICES, Dr. Hyung-Tack Huh made a personal donation of \$10,000 to the Trust Fund;
- d. A grant of \$32,000 (US \$21,800) was received from the Alfred P. Sloan Foundation to convene a PICES Census of Marine Life Workshop and to publish a Workshop Report in the PICES Scientific Report series;
- e. The National Marine Fisheries Service (NOAA, U.S.A.), Fisheries and Oceans Canada (Ottawa) and the Pacific Research Institute of Fisheries and Oceanography (TINRO-Center), agreed to provide \$44,000 (US \$30,000), \$10,000 and \$1,460 (US \$1,000), respectively, to support PICES X

special events;

- f. A proposal was submitted in September 2000 to the Asia-Pacific Network (APN) for a one-year pilot project entitled “APN/PICES ECOPAC: Capacity Building in Climate and Marine Ecosystem Study” (funding period from April 1, 2001 to March 31, 2002).

## 3. Inter-sessional meetings

The following inter-sessional meetings were convened, for which financial, travel and logistical arrangements were made:

- a. A 4-day CCCC/MODEL Workshop on *Lower Trophic Level Modeling*, January 31–February 3, 2000, in Nemuro, Japan (co-sponsored by the Japan International Science and Technology Exchange Center and Nemuro-city);
- b. A 4-day *Beyond El Niño Conference on Pacific Climate Variability and Marine Ecosystem Impacts*, March 23-26, 2000, La Jolla, U.S.A. (co-sponsored by IATTC, IPHC, ISC, NPAFC and SCOR);
- c. A 3-day ICES (International Council for the Exploration of the Sea)/PICES Workshop on *Zooplankton Ecology of the North Atlantic and North Pacific*, April 17-19, 2000, Honolulu, U.S.A.;
- d. A 3-day CREAMS (Circulation Research in the East Asian Marginal Seas)/PICES Workshop on *Oceanography of the East Asian Marginal Seas*, May 15-17, 2000, Vladivostok, Russia;
- e. A 1-day mini-Symposium on *Marine Ecological Studies in the Bering Sea and eastern North Pacific* (to mark the 2000 cruise of the T/S *Oshoro-maru*), July 19, Sidney, Canada (co-sponsored by the Hokkaido University and the Institute of Ocean Sciences);
- f. A 4-day Symposium/Workshop on *North Pacific CO<sub>2</sub> Data Synthesis* (including the second PICES/WG 13 method inter-comparison for carbonate parameters), October 18-21, 2000, Tsukuba, Japan (co-sponsored by the Core Research for

Evolution Science and Technology of the Japan Science and Technology Corporation (CREST/JST) and the Marine Information Research Center (MIRC) of the Japan Hydrographic Association, and hosted by the National Institute for Environmental Studies);

- g. A 2-day Planning Workshop on *Designing the Iron Fertilization Experiment in the Subarctic Pacific*, October 19-20, 2000, Tsukuba, Japan (co-sponsored by the Central Research Institute of Electric Power Industry (CRIEPI) and MIRC);
- h. A 2-day series of CCCC Task Team Workshops: BASS Workshop on *Development of a Conceptual Model of the Subarctic Pacific Basin Ecosystem(s)*, MODEL Workshop on *Strategies for Coupling Higher and Lower Trophic Level Models*, MONITOR Workshop on *Progress in Monitoring the North Pacific*, and REX Workshop on *Trends in Herring Population Dynamics and Trophodynamics*, October 20-21, 2000, Hakodate, Japan (co-sponsored by the Ministry of Education of Japan);
- i. A 1-day Technical Workshop on *Basis for Estimating the Abundance of Marine Birds and Mammals, and the Impact of their Predation on other Organisms*, October 20, 2000, Hakodate, Japan (co-sponsored by the Japanese Fisheries Agency);
- j. A 1-day joint NPAFC/PICES Workshop (hosted by NPAFC) on *Factors Affecting Production of Juvenile Salmon: Comparative Studies on Juvenile Salmon Ecology between East and West North Pacific Ocean*, October 29, 2000, Tokyo, Japan.

#### 4. Publications (FY 2000)

- The 1999 PICES Annual Report was published and circulated in January;
- A poster and the First Announcement for the Ninth Annual Meeting were printed and distributed in January;
- Vol. 8 nos. 1 and 2 of PICES Press were distributed in January and June;
- A Book of Abstracts for the Beyond El Niño

Conference was prepared for circulation at the meeting in March;

- The Final Announcement for the Ninth Annual Meeting was distributed in June;
- The 2000 PICES Directory was updated and circulated in June;
- PICES Scientific Report No. 13: Bibliography on Oceanography of the Japan/East Sea, was published in May and distributed in June;
- PICES Scientific Report No. 14: Predation by Marine Birds and Mammals in the Subarctic North Pacific Ocean (final report of WG 11), was published and circulated in September;
- PICES Scientific Report No. 15: PICES Climate Change and Carrying Capacity Program/Report on the 1999 MONITOR and REX Workshops, and the 2000 MODEL Workshop on Lower Trophic Level Modelling, was published and distributed in September;
- A Book of Abstracts for the Ninth Annual Meeting was prepared for circulation at the meeting in October;
- A special issue of *Progress in Oceanography* on North Pacific Climate Regime Shifts (selected papers from the 1999 Science Board Symposium) was published in October and distributed at the Ninth Annual Meeting;
- A poster for the PICES Tenth Anniversary Meeting was printed in September to be distributed by the end of November;
- PICES Scientific Report No. 16: Review and Results from the 1999 PICES/WG 13 Technical CO<sub>2</sub> Intercalibration Workshop, will be published as a bilingual (English-Japanese) report by the end of this year.

#### 5. Travel and representation at other organization meetings

- Dr. Skip McKinnell, Asst. Executive Secretary, attended the IPHC (Inter-national Pacific Halibut Commission) Annual Meeting in Seattle, U.S.A., in January, to present a PICES/IPHC MOU on scientific cooperation;

- Dr. Alexander Bychkov, Executive Secretary, and Ms. Christina Chiu, Administrative Assistant, travelled to Hakodate and Tokyo, Japan, in February, to discuss Annual Meeting preparations with the Local Organizing Committee and Japanese Government representatives;
- Dr. Skip McKinnell attended the second Annual Workshop on Ocean Ecology of Juvenile Salmonids in Seattle, U.S.A., in February;
- Dr. Hyung-Tack Huh, PICES Chairman, Ms. Patricia Livingston, Science Board Chairman, and the staff of the PICES Secretariat travelled to La Jolla, U.S.A., in March, to hold the Beyond El Niño Conference on Pacific Climate Variability and Marine Ecosystem Impacts;
- Travel support was provided for Drs. Paul H. LeBlond and Warren S. Wooster (SSC Co-Chairmen), 8 invited speakers, and 11 scientists from countries with economy in transition (paid by BEN SCOR grant) to attend the Beyond El Niño Conference on Pacific Climate Variability and Marine Ecosystem Impacts in La Jolla, U.S.A., in March;
- Dr. Hyung-Tack Huh attended the Fifth Intergovernmental Meeting of NOWPAP (North Pacific Action Plan) in Incheon, Republic of Korea, in March (paid by Korean Government);
- Dr. Alexander Bychkov attended the JGOFS (Joint Global Ocean Flux Study Project) Open Science Conference and JGOFS Scientific Steering Committee Meeting in Bergen, Norway, in April (paid by JGOFS);
- Dr. Hyung-Tack Huh attended the International Implementation Planning meeting for ARGO Floats in the Pacific Ocean and Adjacent Regions in Tokyo, Japan, in April, to give a statement on behalf of PICES;
- Drs. Tsutomu Ikeda, Charles B. Miller and Jeffrey M. Napp attended the ICES/PICES Workshop on Zooplankton Ecology of the North Atlantic and North Pacific in Honolulu, U.S.A., in April;
- Dr. Alexander Bychkov and Ms. Christina Chiu attended the International Fisheries Commission Pension Society Meeting in Seattle, U.S.A., in April;
- Dr. Skip McKinnell travelled to Stockholm, Sweden, and Copenhagen, Denmark, in May, to meet with the Scientific Director of GIWA and the General Secretary of ICES, to discuss areas of mutual interest and future cooperation between PICES and these two organizations (partial support);
- Dr. Alexander Bychkov went to Vancouver, Canada, in June, to visit the NPAFC (North Pacific Anadromous Fish Commission) Secretariat and meet with Mr. Yuichi Kusumoto, Consul-General of Japan;
- Dr. Hyung-Tack Huh attended IOC's (Inter-Governmental Oceanographic Commission) Assembly in Paris, France, in June (paid by Korean Government);
- Ms. Patricia Livingston travelled to Paris, France, in July, to participate in the reviewing of the IOC OSLR (Ocean Science in Relation to Living Resources) Programme (paid by IOC);
- Dr. Skip McKinnell attended the ICES Annual Science Conference in Brugge, Belgium, in September (partial support);
- Travel support was provided to 3 invited speakers (Drs. Francisco Werner, Scott Rumsey and Steven Martell) for the MODEL Workshop on Strategies for Coupling Higher and Lower Trophic Level Models in Hakodate, Japan, in October;
- Travel support was provided to 3 scientists (Ms. Galina Pavlova, Ms. Justine Afghan and Mr. W. Keith Johnson) to participate in the second PICES/WG 13 method inter-comparison for carbonate parameters, in Tsukuba, Japan, in October;
- Dr. Hyung-Tack Huh, Ms. Patricia Livingston, staff of the Secretariat and the PICES Intern travelled to Hakodate, Japan, in October, to hold the Ninth Annual Meeting;
- Full or partial travel support was provided to 8 invited speakers to attend the Ninth Annual Meeting in Hakodate, Japan, in October;
- Full or partial travel support from the Trust



Fund and PICES IX SCOR grant was provided to 6 Chinese, 4 Russian and 4 young scientists;

- Travel support was provided to 2 invited speakers (Drs. Niall O'Maoileidigh and Mark Willette) for the NPAFC-PICES Workshop on Factors Affecting Production of Juvenile Salmon: Comparative Studies on Juvenile Salmon Ecology between East and West North Pacific Ocean, in Tokyo, Japan, in October;
- Dr. Hyung-Tack Huh, Alexander Bychkov and Skip McKinnell attended the NPAFC Eighth Annual Meeting in Tokyo, Japan, in October-November.

## **6. Relations with International Scientific Organizations and Programs**

The following reflects expanding relationships with international scientific organizations and programs that are considered to have the highest priority for PICES with respect to cooperation and facilitation of ecosystem research in the North Pacific during in 2000:

- GLOBEC (Global Ocean Ecosystem Dynamics Project of IGBP) co-sponsored a topic session on *Recent Findings and Comparisons of GLOBEC and GLOBEC-like Programs in the North Pacific Ocean* at the PICES Ninth Annual Meeting in October 2000, and accepted a proposal of PICES to organize and co-sponsor a major ICES/PICES/GLOBEC Symposium on Zooplankton Ecology in spring 2003;
- JGOFS participated in planning and co-sponsored a topic session on *North Pacific Carbon Cycling and Ecosystem Dynamics* at the PICES Ninth Annual Meeting in October 2000;
- After a successful ICES/PICES Workshop on *Zooplankton Ecology of the North Atlantic and North Pacific*, in April 2000 (in conjunction with the meeting of the ICES Working Group on Zooplankton Ecology), ICES accepted a proposal of PICES to organize and co-sponsor a major ICES/PICES/ GLOBEC Symposium on Zooplankton Ecology in spring 2003;

- NPAFC co-sponsored a conference *Beyond El Niño Conference on Pacific Climate Variability and Marine Ecosystem Impacts* organized by PICES in March 2000, and hosted a joint NPAFC/PICES Workshop on *Factors Affecting Production of Juvenile Salmon: Comparative Studies on Juvenile Salmon Ecology between East and West North Pacific Ocean* in October 2000;
- SCOR co-sponsored a conference *Beyond El Niño Conference on Pacific Climate Variability and Marine Ecosystem Impacts* organized by PICES in March 2000, and provided a grant of \$13,340 (US \$9,000) to support travel of Chinese and Russian scientists to the PICES Ninth Annual Meeting;
- PICES was invited by IOC to participate in the reviewing of the IOC OSLR (Ocean Science in Relation to Living Resources) Programme;
- A PICES/IPHC MOU on scientific cooperation was developed, presented at the 2000 IPHC Annual Meeting and signed in January 2000, and in March 2000, IPHC co-sponsored a conference *Beyond El Niño Conference on Pacific Climate Variability and Marine Ecosystem Impacts* organized by PICES;
- IATTC and ISC co-sponsored a conference *Beyond El Niño Conference on Pacific Climate Variability and Marine Ecosystem Impacts* organized by PICES in March 2000;
- PICES was invited to participate in developing a new Strategic Paper for NEAR GOOS (North East Asian Regional Global Ocean Observing System) and to co-sponsor a NEAR-GOOS Forecasting Workshop in August 2001;
- A statement on behalf of PICES in support of the ARGO project was delivered at the International Implementation Planning meeting for ARGO Floats in the Pacific Ocean and Adjacent Regions in Tokyo, Japan, in April;
- PICES co-sponsored a CREAMS Workshop on *Oceanography of the East Asian Marginal Sea* in May 2000, and supported a cruise on ecosystem study of the Japan/East

Sea organized by the Pacific Oceanological Institute (Vladivostok, Russia) in October 2000.

## **7. PICES Intern Program**

At the PICES Eighth Annual Meeting (October 1999), the Governing Council approved the PICES Intern Program (Decision 99/A/7) and its commencement in 2000. In addition to their annual fees, Canada and U.S.A. contributed \$7,500 and \$7,000 respectively, to the Trust Fund to finance the Intern Program. Mr. Gong-Ke Tan (People's Republic of China) was selected as the first Intern in March 2000. An offer was made to Mr. Tan on April 6, 2000, and

the notification of acceptance was received on April 10, 2000. The recommended period of appointment from June 22 to December 15, 2000, was meant to give him the opportunity to be involved in all major PICES activities including the organizing of the PICES Ninth Annual Meeting in Hakodate, Japan, this October. The duration of the Intern's term is limited by funding and, to a certain extent, by Canadian visa regulations.

## **8. Electronic Communication**

The PICES Home Page will be completely re-designed and updated by the end of this year.