

Annual Report 2004

ISPRS TECHNICAL COMMISSION VI EDUCATION AND OUTREACH

Outgoing President: Tania Maria (Brazil)
Outgoing Secretary: João Ávila (Brazil)

Incoming President: Kohei Cho (Japan)
Incoming Secretary: Mitsunori Yoshimura (Japan)

Report of Outgoing President

The Commission was involved in the following activities of the ISPRS Congress 2004 which was held in Istanbul, Turkey. The activities included 4 Technical Sessions (TS), 2 Poster Sessions (PS), one presentation in a plenary session, Business Meetings, the CATCON 3 competition, decision of Best Poster Awards. The 4 TS had a very good participation, with 40-120 persons per session and a total of 300 participants. 19 papers (2 of which invited) were presented, and lively discussions were followed. The CATCON 3 competition was organized by WG VI/2. 9 software packages and 2 demonstration packages were presented. About 100 persons visited the competition. Three prizes were awarded to non commercial software and a special Gold Prize Award to the firm Intermap for a tutorial on InSAR. (The preparation of Congress report was supported by E. Baltsavias of ETH Zurich).

After the ISPRS Congress, the 4th Workshop on Remote Sensing Education for the Mercosul Area was held at the Universidade do Vale do Rio dos Sinos - UNISINOS, UNITEC - Pólo de Informática in São Leopoldo city, Porto Alegre state, Brazil on August 11-13, 2004.

The workshop theme was "A new challenge in Education: preparing the citizen of the 21st century" and provided the opportunity to join specialists from the Mercosul countries, representing a big concentration of experience and knowledge in the remote sensing education area and space information systems.

This century represents a new challenge for educators and students in terms of technological breakthroughs, new methodologies and ways of teaching. This workshop emphasized education under a new global perspective and experiences.

This event was organized by the SELPER International – Latin American Society for Remote Sensing Specialists – Teaching and Research Committee; the SELPER Brazil Chapter; the National Institute for Space Research – INPE; the Universidade do Vale do Rio dos Sinos – UNISINOS and the International Society for Photogrammetry and Remote Sensing - ISPRS – Technical Commission 6 – Education and Communication.

It was sponsored by the China–Brazil Earth Resources Satellite - CBERS Programme; the Brazilian Space Agency – AEB; the Comisión Nacional de Actividades

Espaciales – CONAE, Argentina and three Brazilian financial agencies CAPES, FAPESP and FAPERGS.

Outlook by Incoming President

The technology advancement is rapidly expanding the way of education. Many universities are now developing e-Learning materials and organizing e-Learning courses. Video on Demand (VOD) is allowing students to take lectures at any time, any place. With the use of Internet, distance learning has become much interactive and less expensive. Various kinds of educational materials are freely accessible on the Internet. Considering various aspects of education, the Commission VI for 2004-2008 has set up total of 5 working groups and one special interest group to promote and clarify the role of ISPRS in the field of education.

Without certain pedagogy, e-Learning does not work properly. Even in the age of e-Learning, face-to-face education is fundamental and most important. The accreditation is also an important issue to be discussed considering various frameworks of education. In WG VI/1, we plan to discuss about the frameworks and methodologies of education.

WG VI/2 will concentrate on e-learning, and will try to collect, evaluate and disseminate information on e-Learning in timely manner.

WG VI/3 is for international cooperation and capacity building. In this WG, we have set up a new position, regional coordinators (RC), for coordinating regional needs and events with ISPRS activities. The ISPRS Council has decided to concentrate more in Africa and in other regions where education are much expected. The Special Interest Group (SIG) on Technology Transfer will be organizing workshops or seminars every year mainly in developing countries for technology transfer.

In WG VI/4, we plan to collect and evaluate the educational resources on the Internet and set up a kind of portal site for introducing proper educational material on the Internet.

In order to promote student activities within ISPRS, WG VI/5 was set up. Under this WG, students will be organizing their own group call Student Consortium (SC). WG VI/5 will act as the interface of SC to ISPRS. We believe that this new mechanism may activate the student activities within ISPRS.

Working Groups of Technical Commission VI for 2004-2008

WG VI/1 EDUCATIONAL FRAMEWORKS AND METHODOLOGIES

Chair: *Henrik Haggren (Finland)*

Co-Chairs: *Alain Duperet (France)*

Anders Boberg (Sweden)

WG VI/1 Terms of Reference

- Investigation, evaluation, and clarification of national and international frameworks of education in terms of legislation and accreditation.
 - Assessment of methodologies for optimizing various ways of education including school education, life-long education, re-education of senior engineers, and international exchange in education.
 - Promotion of scientific publications in our fields and collection and dissemination of respective bibliographic information.
 - Development of connections with international organizations such as FIG, ICA, UN for investigating and evaluating the international frameworks on education.
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WG VI/2 E-LEARNING

Chair: *Gerhard König, Germany*

Co-Chair: *Mark R. Shortis, Australia*

Secretary: *Christiane Katterfeld, Germany*

CATCON Coordinator: *Shashikant Sharma, India*

WG VI/2 Terms of Reference

- Collection, analysis, dissemination and promotion of material, software and data (hardcopy and/or softcopy) for e-learning including computer assisted teaching and distance learning.
 - Investigation of the role of e-Learning in modern education and training such as material, methodologies and tools.
 - Assessment and evaluation of highly interactive multimedia materials and their use in tertiary level courses in remote sensing, photogrammetry and SIS.
 - Organization of the software contest CATCON for promotion and dissemination of free educational software.
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WG VI/3 INTERNATIONAL COOPERATION AND CAPACITY BUILDING

Chair: *Xiaoyong Chen (Thailand)*

Co-Chair: *Sjaak J.J. Beerens (Netherlands)*

Regional Coordinators:

South America: *Osmar Gustavo Wohl Coelho (Brazil)*

South Africa: *Ulrike Rivett (South Africa)*

Mid Africa: *Olajide Kufoniyi (Nigeria)*

Southern Asia: *Karl Hamsen (India)*

CEOS contact point: *Yukio Haruyama (Japan)*

WG VI/3 Terms of Reference

- Development of connections with international organizations such as CEOS for wider promotion of education in the field of photogrammetry, remote sensing and SIS.
 - Development of matrices of joint activities on capacity building, including technology transfer and training, with ISPRS Regional Members and other international organizations such as UN, especially for developing countries.
 - Identification of channels for international cooperation in technology transfer and training and stimulation of international and regional organizations to support and fund activities promoted by ISPRS (in co-operation with the Council).
 - Assessment of restrictions to international collaboration in capacity building resulting from national and regional legal educational frameworks (in terms of accreditation and certification) and ways to address them.
 - Collaboration with WG I/6 on technology transfer related to small satellites
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WG VI/4 INTERNET RESOURCES AND DATASETS

Chair: *Timothy Foresman (USA)*

Co-Chair: *Venkatesh Raghavan (Japan)*

Secretary: *Koki Iwao (Japan)*

WG VI/4 Terms of Reference

- Identification, collection, evaluation and dissemination of information on Internet resources, and datasets which are useful for education in the field of remote sensing, photogrammetry and spatial information sciences.
 - Identification, promotion, and organization (in cooperation with educational and research institutions) of educational material (courses, tutorials, glossaries etc.) in electronic form.
 - Assessment and evaluation of the ISPRS web site for further enhancement.
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WG VI/5 - PROMOTION OF THE PROFESSION TO STUDENTS

Chair: *Rahmi Nurhan Celik (Turkey)*

Co-Chair: *Zhu Qing (China)*

Secretary: *Zaide Duran (Turkey)*

Student Coordinators: *Jaakko Järvinen (Finland)*

Esra Erten (Turkey)

Sultan Kocaman (Switzerland)

WG VI/5 Terms of Reference

- Promotion and support of international student activities including the ISPRS Student Consortium.
 - Encouragement of active participation of students, especially undergraduate students, in ISPRS events and
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promotion of reduced fees and stipend for their participation.

- Collection and maintenance of a database on persons who are involved in the promotion of the profession to students, including the members of ISPRS Student Consortium and educators.

SPECIAL INTEREST GROUP "TECHNOLOGY TRANSFER CARAVAN"

Chair: Armin Gruen (Switzerland)

Co-Chair: Shunji Murai (Japan)

Secretary: Lal Samarakoon (Thailand)

Special Interest Group Terms of Reference

- Transfer of knowledge and technology by initiating and organizing seminars, tutorials and workshops with special consideration of the needs of developing countries.
- Development of teaching material for mobile, caravan-type teaching and training projects.
- Initiation and support of e-learning and remote teaching activities with focus on integration of high-tech elements in teaching and training.
- Support of events with strong participation of young scientists and students.
- Solicitation of support from potential sponsors (system manufacturers, government agencies, NGO/ NPOs, foundations etc.) for the projects and activities.



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