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**REPORT OF THE XXII<sup>nd</sup> MEETING OF THE FIG/IHO INTERNATIONAL  
ADVISORY BOARD ON STANDARDS OF COMPETENCE FOR HYDROGRAPHIC  
SURVEYORS  
New Delhi, India, 7-13 April 1999**

Dear Sir,

Please find attached herewith the Report of the FIG/IHO International Advisory Board Meeting held in April this year.

On behalf of the Directing Committee,  
Yours sincerely,

Rear Admiral Giuseppe ANGRISANO  
President

Encls: Report

## **REPORT OF THE XXII<sup>nd</sup> MEETING OF THE FIG/IHO INTERNATIONAL ADVISORY BOARD ON STANDARDS OF COMPETENCE FOR HYDROGRAPHIC SURVEYORS**

New Delhi, India, 7- 13 April 1999

### **1. Location and attendance**

The XXII<sup>nd</sup> Meeting of the FIG/IHO International Advisory Board was held at the "India International Centre", New Delhi, from 7 to 13 April 1999. The following were present :

Captain Hugo Gorziglia	(IHO)	(Chairman)
Mr. Svante Astermo	(FIG)	(Vice-Chairman)
Mr. Razali B. Ahmad	(FIG)	
Mr. Gordon Johnston	(FIG)	
Lt. Cdr. Steve Shipman	(IHO)	
Rear Admiral K.R. Srinivasan	(IHO)	
Dr. David Wells	(FIG)	
Captain Federico Bermejo (Secretary)	(IHB)	

Cdr. S. Mittal, Indian Navy, attended the meeting as programme co-ordinator and assistant to the Board.

The Chairman introduced and welcomed Mr. Gordon Johnston, new member of the Board appointed by FIG.

### **2. Opening of the meeting and adoption of the Agenda**

Radm Srinivasan, AVSM, host of the meeting, welcomed the Board. Vice Admiral Harinder Singh AVSM, Deputy Chief of Naval Staff, Indian Navy, inaugurated the meeting, stressing the importance of the Board's mission. The Chairman opened the meeting and the Agenda was adopted with some minor amendments.

### **3. Administrative arrangements**

A conference room and secretarial facilities were provided by the National Hydrographic Office, India. The host member of the Board and the programme co-ordinator explained the Administrative arrangements and social events scheduled.

### **4. Matters arising from previous meetings**

#### **4.1 Inter-sessional activities**

The Chairman and members of the Board report on various inter-sessional activities, among which are the following :

- Contribution of the Board to the IHO Strategic Plan in relation to Education and Training
- The meeting of the Royal Institution of Chartered Surveyors, February 1999, in which the future of surveying and land surveying, along with other subjects related to education and training were discussed;
- The General Congress of FIG
- The presentation of the A. Board's activities to every FIG Congress
- The efforts of the Hydrographic Society in establishing closer contact with the Board
- The implementation of the Free International Course in Hydrography by the National Hydrographic School in Goa, India

The Board considered also the request from the IHB concerning its participation in the establishment of Standards for Nautical Cartographers. It was agreed that the need of establishing Standards for Nautical Cartographers exists, but the task should be carried out by other bodies. However, the Board is ready to provide assistance with the task that at present is being developed by IMA (Trieste) with Draft Standards for Cartographers to be provided by RAdm Srinivasan, member of the Advisory Board, for discussion at the XXIII<sup>rd</sup> International Advisory Board Meeting.

## **4.2 Courses pending**

The Board discussed the pending recognition of the "Course in Hydrography" from the University of Plymouth (UK). It was felt that the course was not offering enough nautical background for a Category A course. Therefore, recognition was granted at Category B (Option 1) and a letter will be sent to the relevant authorities encouraging the increase of that subject so that recognition at Category A may be awarded in the future.

## **4.3. Standards**

The Chairman informed the Board that a letter had been sent on 3 September 1998 to the Heads of several H.O. and other institutions requesting their comments on the present Standards. Some of the comments were relevant and will be considered in the next edition of the Standards.

## **5. Review of Courses**

### **5.1 Long Course in Hydrography of the U.K. Royal Navy Hydrographic School**

This course is intended to replace the present Long Course in 2001. Some concerns of the Board about this course were amply addressed by the representative from RNHS and the course was awarded recognition at Category A with Option 6, in combination with the Basic Course and 4 years of practical experience.

### **5.2 Free Course in Hydrography of the National Hydrographic School, Goa, India**

The Board reviewed this course and decided to recognize this course as meeting the requirements for a Category B course and fulfilling with Options 1, 2, 3 and 5. The Board recognized officially the interest and effort made by the Government of India and the National Hydrographic School for organizing this new course freely open to international community, addressing the educational needs of countries less developed in hydrographic surveying.

### **5.3 Advanced Course in Hydrography of the Japanese Maritime Safety Agency**

The Board was helped in the reviewing of this course by Dr. Sasaki (Japan MSA) who provided clear explanation about some subjects. Recognition was awarded to this course at Category A with Option 1. The Board also included some recommendations about the addition of more time to some items of the syllabus.

### **5.4 International Hydrographic Management and Engineering Program of the Naval Oceanographic Office (USA)**

The Board appreciated the contribution of Mr. Robert Bullard and Mr. Julian Higgins (NAVOCEANO) to the reviewing of this course, which was awarded recognition at Category B with Option 1.

### **5.5 Course in Hydrography of the St. Petersburg Naval Academy (former Frunze Naval Academy)**

Following the recommendations given by the Board after the XXIst meeting, the above institution re-submitted the course, with an almost complete new presentation. The Board decided to award recognition against the 7<sup>th</sup> edition of the Standards at Category A level and Specialism in Surveys for Nautical Cartography upon reception of clarification on some specific subjects. The Academy was also encouraged to make the necessary changes to match the 8<sup>th</sup> edition of the Standards.

## **6. Presentation of future courses**

Two courses in preparation were presented to the Board :

- Course in Hydrography run by the University of New Brunswick (Canada)
- Course in Hydrography run by the Canadian Hydrographic Service.

The Canadian Hydrographic Service (CHS), supported by consortia partners, made a presentation to the Board outlining a distance education Category B initiative using the world wide web and also providing for practical field sessions. During the presentation, activities which have been under development for the past year focusing on 1) the student - addressing education and training styles; 2) the instructor - developing and delivery course material and 3) the infrastructure - support people, process and technology, were highlighted. The initiative which involves academic institutes, industry and CHS will implement a pilot web site during the autumn of 1999, which will allow the Board members an opportunity to take a representative course and then provide feedback.

The CHS will make a formal submission to the Board at its next meeting.

The Board also identified possible future submissions from Hamburg Polytechnics, Bordeaux Port (France), University of Technology of Bandung (Indonesia), SHOA (Chile), H.O. of Colombia, H.O. of Venezuela, H.O. of Cuba, NAVOCEANO (USA) and Course on Port Hydrography (IMA, Trieste)

## **7. Review of the Standards of Competence**

### **7.1. Levels of knowledge**

The Board felt that the present levels of knowledge laid down in the Standards require more precision, in order that the maximum guidance may be given to the preparation of submissions. It was agreed to review the classification and definition of the 3 levels in accordance with Bloom's taxonomy. It was also agreed that the members of the Board will review the Level of Knowledge of the present Essential Subjects before the next meeting (see Appendix I for Board's members only). Changes to the Standards resulting from this reviewing will be reflected in the next 9<sup>th</sup> edition.

### **7.2. Essential Matters**

The Board felt that subject Essential 7 of the Syllabus - Nautical Science - was very important for a hydrographer and that its present lay out in the syllabus should be reviewed. Accordingly, it was agreed to re-draft this chapter, which will be included as Basic 4, under 4 main headings, as follows :

- 1 Vessels, characteristics and handling
- 2 Safety at Sea
- 3 Navigation and pilotage
- 4 Hydrographic Operations

The work of developing each of the above subjects will be shared by the members of the Board (see Annex I, for Advisory Board members only).

It was also agreed that an Appendix providing guidance on tasks to be carried out as nautical background should also be drafted.

### **7.3 Optional Units**

The Board agreed that no additional Options were required at present, but that a revision should be carried out throughout all options. The task of revision will be shared by the Board members (see Annex I, for Advisory Board members only).

## **8. Membership**

The Board again considered the possibility of The Hydrographic Society participating in the work of the Board. It was agreed that the President of THS would be reminded of the letter sent to him by the Board's Chairman after the XXIst meeting in which the Board suggested various options to make this cooperation possible.

## **9. Date and venue of the next meeting**

It was decided to accept the kind invitation of the Chairman, Captain Gorziglia, to host the next meeting in Valparaiso (Chile) from 12 to 18 April 2000. The Secretary of the Board reported that the International Maritime Academy of Trieste and the South African Hydrographic Service may also be potential host institutions for 2001.

## **10. Close of the meeting**

There being no other points to discuss, the meeting adjourned at 1300 on 13 April 1999.

**LIST OF CURRENT MEMBERS OF THE ADVISORY BOARD**

<b>NAME</b>	<b>Country</b>	<b>ADDRESS</b>	<b>PHONE</b>	<b>FAX/ e-mail</b>
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