

## INTERNATIONAL INCE

### MINUTES OF THE GENERAL ASSEMBLY MONDAY, 2001 AUGUST 27 DEN HAAG, NETHERLANDS

1. **Opening:** President T. Kihlman opened the General Assembly of I-INCE at 12.45 Monday, 2001 August 27.
2. **Roll Call:**

#### **Present:**

Australia:	Australian Acoustical Society
Belgium:	Belgische Akoestische Vereniging
Brazil:	Sociedade Brasileira de Acustica
Czech Republic:	Czech Acoustical Society
Denmark:	Danish Acoustical Society
France	Societe Francaise d' Acoustique
Germany	NALS im DIN und VDI
Germany:	Deutsche Gesellschaft fur Akustik
Italy:	Assn. Italiana di Acoustica
Japan:	INCE/Japan
Japan:	Acoustical Society of Japan
Netherlands:	Nederlands Akoestisch Genootschap
New Zealand:	New Zealand Acoustical Society
Poland:	Committee on Acoustics - Polish Academy of Sciences
Spain:	Sociedad Espanola de Acustica
Switzerland:	Schweizerische Gesellschaft fur Akustik
Turkey:	Turkish Acoustical Society
United Kingdom:	Institute of Acoustics
United States:	Acoustical Society of America
United States:	Institute of Noise Control Engineering of the USA

#### **Absent:**

Austria	Osterreichische Arbeitsring fuer Laermbekaempfung
Canada	Canadian Acoustical Assn.
China	Acoustical Society of China
Finland	Acoustical Society of Finland
Greece	Hellenic Acoustical Society
Hong Kong:	Hong Kong Institute of Acoustics
Hungary:	Acoustical Commission of the Hungarian Academy of Sciences
Korea:	Korean Society for Noise and Vibration Engineering
Korea:	Acoustical Soc. of Korea
Lithuania:	Lithuanian Acoustical Society
Mexico:	Instituto Mexicana de Acustica
Norway:	Acoustical Society of Norway

Portugal:	Sociedade Portuguesa de Acustica
Singapore:	The Environmental Eng. Society of Singapore
Slovakia:	Slovak Acoustical Society
Slovenia:	Slovenian Acoustical Society
South Africa:	South African Acoustics Inst.
Sweden:	Swedish Acoustical Society

3. **Agenda:** The draft agenda was reviewed. An item about *NNI* was added to item 10. The final agenda follows.

*Agenda  
General Assembly  
International INCE*

*Time: Monday, 2001 August 27, 12.30 - 15.30 hours.*

*Location: Rembrandt-zaal in the Congress center, the Hague*

*Draft Agenda*

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1. *Opening of the meeting by the President (12.30).*
2. *Roll call of delegates.*
3. *Adoption of the Agenda.*
4. *Approval of the minutes of the Twenty-sixth Meeting held in Nice, France, 2000 August 27. To be published in the 2001 March issue of NNI.*
5. *Report of the President (includes report of the Nominating Committee).*
6. *Report of the Secretary-General on the affairs of I-INCE.*  
  - *matters relating to I-INCE membership.*
  - *petitions for change in category status (if any).*
7. *Report of the Treasurer of I-INCE*  
  - *review of payments by Member Societies.*
  - *review of the audited account for fiscal year 2000.*
  - *review of the budget for 2001.*
  - *consideration of preliminary budget for 2002.*
8. *Approval of I-INCE Rules, Part 4.*  
  - *Part 4 of the I-INCE Rules deals with the Next Congress Planning Committee. This section of the rules was drafted by the Board for confirmation by the General Assembly. The draft appears in the 2001 March issue of Noise/News International.*
9. *Membership of the Congress Selection Committee (CSC).*  
  - *According to the procedures of the CSC (I-INCE Rules, Part 3) as posted on the web on 2000.01.23, the General Assembly shall appoint three members who shall serve for a three-year term; nominations shall be called for under this item of the agenda.*
10. *Finances of I-INCE.*

- Several matters relating to future financing of the Institute will be discussed.
- The financial situation of **Noise/News International**

11. Report on planning for INTER-NOISE 2002 (Dearborn, USA) and a report of the Next Congress Planning Committee (NCPC).

- A representative of the organizing committee will report on progress to date.

12. Report on planning for INTER-NOISE 2003 (Chejudo Island, Korea).

- A representative of the organizing committee will report on progress to date.

13. Report on status of current I-INCE technical initiatives.

- At the 2000 General Assembly, the formation of one new Technical Study Group (TSG) was approved. The composition of the new TSG #5, "Noise as a global policy issue," as well as the appointment of the Convener(s) will be confirmed.

- Status of final report on "Effects of regulations on road vehicle noise" (Ulf Sandberg)

- The following five active TSGs will present a report on the status of their work:

TSG #1: Outdoor Recreational Activities (Convener: P. Dickinson)

TSG #2: Noise Labels for Products (Convener: B. Berry)

TSG #3: Noise Policies and Regulations (Conveners: H. Tachibana and W. Lang)

TSG #4: Noise Control for Schoolrooms (Convener: Z. Karabiber)

TSG #6: Community Noise (Conveners: J. Ollerhead and N. Porter)

14. Other business.

15. Closing of the meeting.

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#### 4. Minutes:

The minutes of the 26<sup>th</sup> meeting were published in the 2000 March issue of *NNI*. There was a brief discussion of minutes of the 25<sup>th</sup> meeting which was deferred to Other Business. The minutes of the 26<sup>th</sup> meeting of the General Assembly were approved without discussion.

#### 5. Report of the President:

President Kihlman reported as follows;

- I-INCE is flourishing.
- INTER-NOISE 2001 appears to be well attended with excellent sessions.
- The next 2 INTER-NOISE Congresses are progressing well.
- INTER-NOISE 2004 will be in Europe. Proposals are being evaluated from Spain, Italy, and the Czech Republic.
- Proposals for INTER-NOISE 2005 will be presented next year for Vancouver, Canada and Florianopolis, Brazil.
- INTER-NOISE 2006 will be in the Europe region. The Congress rotation schedule will be a four year cycle of Europe/Asia-Pacific/Europe/Pan America.
- The Board of Directors is currently considering the Mission, Vision, Goals, and Principles of the Institute.
- The jobs of the Secretary General and Treasurer have been split and job descriptions have been developed.
- Per Bruel and Alan Marsh were elected Distinguished Members of the Board.

## 6. Report of the Secretary General:

- The transition of the office of the Secretary General to Purdue University is essentially complete.
- Member Society activities
  - The Instituto Mexicana de Acustica has applied for membership. They have met the requirements and will be admitted.
  - The Sociedad Mexicana de Acustica has been dropped from membership due to non-payment of dues and no response to inquiries of their status.
  - The East European Acoustical Association will be dropped from membership for non-payment of dues.
  - The Noise and Vibration Division of the South African Institution of Mechanical Engineering (SAIMechE) will be dropped from membership at their request.

## 7. Report of the Treasurer:

- A report of the status of dues payments was presented. All members are essential current on dues payment except the Eastern European Acoustical Association, Sociedad Mexicana de Acustica, and Noise and Vibration Division of the South African Institution of Mechanical Engineering (SAIMechE).
- The 2000 Financial Report was presented. A discussion ensued about the balance and whether the current balance (70,822.75 euros) was excessive. The discussion was deferred to item 10 where issues of new expenses were to be discussed. The financial report was approved.
- The 2001 I-INCE budget was presented. It was noted by the President that the support from I-INCE for *Noise/News International* is weak and will need to be addressed. The budget was approved without further discussion.
- The Treasurer's report was approved.

## 8. Approval of I-INCE Rules, Part 4.

The proposed **Rules, Part 4, Next Congress Planning Committee (NCPC)** were published in the 2001 March issue of *Noise/News International*. Discussion included the number of officers on the committee and the length of service. These issues have been left intentionally vague for interpretation by the NCPC. The Rules, Part 4 will be revised by vote of the General Assembly in the future if needed. The Rules, Part 4 were approved unanimously.

## 9. Membership of the Congress Selection Committee (CSC).

The General Assembly elects three new members to the Congress Selection Committee each year. The terms of H. Tachibana (Asia-Pacific), J. Scheuren (Europe), and Y.-H. Kim (Asia-Pacific) have expired. B. Schulte- Fortkamp (Europe), H. Tachibana (Asia-Pacific), and M. Burgess (Asia-Pacific) were nominated for three year terms. All were elected unanimously.

## 10. Finances of I-INCE.

Several issues related to the future financial affairs of I-INCE were discussed:

- At the present time the costs of the I-INCE Secretariat are being absorbed by Purdue University. This situation might not continue in the future.
- The financial support of *Noise News International (NNI)* must change in the future. Last year INCE/USA dues support of *NNI* was 14,583 USD. I-INCE support was

- 6,485 USD. INTER-NOISE contribution (15 USD/attendee) was 13,000 USD. A higher contribution from I-INCE is required. Also, the current editorial staff of *NNI* is all voluntary. The editorial staffing of similar publications is 25,000 to 40,000 USD. In response to questions about whether savings could be achieved through use of an electronic newsletter, a discussion ensued about the uncertainty of both costs and advertising income. There is no plan to pursue this option at this time.
- G. Maling announced that B. Berry will replace A. Cops as European Editor of *NNI* and M. Burgess has replaced A. Lawrence as Asia-Pacific Editor of *NNI*.

**11. Report on planning for INTER-NOISE 2002 (Dearborn, USA) and a report of the Next Congress Planning Committee (NCPC).**

R. Singh presented a summary of planning for INTER-NOISE 2002. The Congress will be held 2002 August 19-21 at the Hyatt Regency in Dearborn, MI USA. The theme is Transportation Noise. The Secretariat will be at The Ohio State University. The Congress will be held in conjunction with Active 2002, which will be held in Southampton, UK, 2002 July 15-17, the Recreation Noise Symposium, in Key Largo, FL USA 2002 August 12-14, an INCE Seminar on Acoustical Materials to be held in Dearborn 2002 August 15-16, and SQS 2002 to be held in Dearborn, 2002 August 22.

**12. Report on planning for INTER-NOISE 2003 (Chejudo (Jeju) Island, Korea).**

T. Kihlman summarized the report presented by Dr. H. J. Eun, President of the Korea Research Institute of Standards and President of INTER-NOISE 2003 to the Board of Directors. INTER-NOISE 2003 will be held 2003 August 25-27 at a new conference center on Chejudo (Jeju) Island in southern South Korea. The organizers are planning for 600 domestic participants and 600 international participants. The Secretariat will be the Department of Mechanical Engineering at the Korean Advanced Institute of Science and Technology. Preparations are proceeding well.

**13. Report on status of current I-INCE technical initiatives.**

- At the 2000 General Assembly, TSG #5 *Noise as a Global Policy Issue*, was approved. The appointment of the co-conveners of TSG#5 (W. Lang and T. ten Wolde) and the composition of TSG#5 were confirmed by the General Assembly.
- The final report *Noise Emissions of Road Vehicles: Effect of Regulations* has been completed. It is being distributed at INTER-NOISE 2001 and will be published in the 2001 September issue of *NNI* and will appear on future CD's of the INTER-NOISE and NOISE-CON series.
- Interim status reports of TSG #1 *Outdoor Recreational Activities*, TSG #2 *Noise Labels for Consumer and Industrial Products*, TSG #3 *Noise Policies and Regulations*, and TSG #4 *Noise and Reverberation Control for Schoolrooms* have been received. The interim reports are attached. Oral reports of TSG #2, TSG#3, and TSG#4 were presented to the General Assembly. Brief discussions ensued.
- The co-conveners of TSG #6 *Community Noise* have resigned. The Board will be reviewing the future this TSG and will report to the next General Assembly.
- The membership list for each TSG is appended as Attachment 1.

#### **14. Other business.**

- The delegate from the *Turkish Acoustical Society* asked if a policy could be developed for support of scientists from developing countries to attend the Congress series and accompanying meetings. It was suggested by other delegates that delegates be given free registration at the Congresses or that scholarships be provided. The President responded that this is an important issue and all suggestions to address this problem are welcome within the constraints of the Congress budgets and I-INCE financial responsibilities for *NNI*. Special external funding will be required.
- The delegates from *Societe Francaise d' Acoustique*, *NALS im DIN und VDI*, and *Deutsche Gesellschaft fur Akustik* inquired about the relationship between INCE/Europe and I-INCE. INCE/Europe (the *Initiative for Noise Control Engineering of Europe*) has been incorporated in the UK and has started activity in the form of a web based affiliates directory and two workshops. Specifically, the delegates requested information about whether INCE/Europe is a member of I-INCE, whether the requests made of the INCE/Europe delegates at the 1999 meeting of the General Assembly, when its application for membership was tabled, have been met, and what is the relationship of INCE/Europe with EAA and the I-INCE members in Europe. In response, the President reported that INCE/Europe has not responded to the requests of the General Assembly in 1999 to define its relationship to EAA and the member societies in Europe. The word "Initiative" was used in the INCE/Europe name due to restrictions for incorporation in the UK, not due to problems between I-INCE and INCE/Europe. And it is I-INCE understanding that the activities of INCE/Europe have been initiated to illustrate it will be a complementary organization to EAA and the I-INCE member societies. The president plans to formally write to INCE/Europe to ask that they respond to the request from the 1999 General Assembly meeting and to informally urge those leaders of INCE/Europe who are also active members of the I-INCE leadership to resolve these issues soon and to complete the I-INCE membership application process if they plan to do so.
- The delegate from *Sociedade Brasileira de Acustica* noted the low attendance at the General Assembly and urged action to get more member societies to attend. In addition, he urged more action to recruit additional members.

#### **15. Closing of the meeting.**

The meeting was closed at 1500.

Respectfully submitted,

Robert J. Bernhard  
Secretary General

## Attachment 1: Technical Study Group Composition

### ***I-INCE TSG #1 OUTDOOR RECREATIONAL ACTIVITIES***

**Convener** Philip Dickinson [philip\_d@iconz.co.nz]

#### ***Members***

**Australia** (Australian Acoustical Society)

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**The Netherlands**

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### ***I-INCE TSG #2 on NOISE LABELS FOR PRODUCTS***

**Convener** Bernard Berry [bernard.berry@npl.co.uk]

#### ***Members***

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<sup>1</sup> Member Society has been requested to confirm participation

### ***I-INCE TSG #3 on NOISE POLICIES AND REGULATIONS***

**Convener** Hideki Tachibana [tachibana@iis.u-tokyo.ac.jp]

**Co-convener** William Lang [langww@alum.mit.edu]

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***I-INCE TSG #4 on NOISE CONTROL FOR SCHOOLROOMS***

***Convener*** Zerhan Karabiber [karabi@yildiz.edu.tr]

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***Czech Republic*** (Czech Acoustical Society)<sup>2</sup>  
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***France*** (Societe francaise d'acoustique)  
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***U.S.A.*** (Acoustical Society of America)  
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***U.S.A.*** (INCE USA)  
Lou Sutherland [lou-sutherland@juno.com]

<sup>1</sup> New member to be confirmed by the General Assembly in Dearborn, USA.

<sup>2</sup> Member Society has been requested to confirm participation

***I-INCE TSG #5 on NOISE as a GLOBAL POLICY ISSUE***

***Co-convenor*** William Lang [langww@alum.mit.edu]

***Co-convenor*** Tjeert ten Wolde [tenWolde@TPD.TNO.NL]

***Members and Consultants***

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Alan Marsh [marsh\_alan@msn.com]

***Note:*** At the General Assembly in Den Haag, additional members were proposed by Member Societies in Brazil, Korea, and New Zealand. These individuals will be invited to participate in the next meeting of TSG #5 to be held in Dearborn, USA, during 2002 August.

## **Attachment 2: REPORT TSG#1**

### **I-INCE Technical Study Group # 1 Outdoor Recreational Activities**

This I-INCE Technical Study Group is examining the effects of noise from recreational activities in outdoor areas, and the laws governing such noise emissions across the World. Problem areas of recreational activity (in terms of uncontrolled and/or excessive noise) are being highlighted, with the aim of producing workable strategies to recommend for solving or at least mitigating the adverse effects.

Recreational activities can be defined as those pursuits outside one's regular occupation that are usually undertaken for purposes of relaxation, or for the refreshment of strength and spirits after work. Noise is produced by many of these recreational activities. While the providers of such recreational activities may be uninterested, unwilling, or unable to control the noise, non-participating bystanders (animals as well as people) are sometimes exposed to relatively high levels of noise, or to noise intrusion that adversely affects their normal life. For example, the maintaining of natural quiet in national parks and wilderness areas is considered by many to be paramount to the survival of these preserves of the natural environment, but the incursion of recreational activities involving aircraft, road and off-road vehicles, and watercraft in many of these special areas has greatly changed, and sometimes totally eliminated, the natural acoustic environment. There are many other examples where the incursions of outdoor recreational noise create friction between those making the noise, and the bystanders who are not involved in the recreational activities.

At the inaugural meeting at Internoise 2000 in Nice, the technical working party drew up a line of study for each member of the team. This included studying the problems posed by outdoor recreational noise in each member's own country and neighbouring countries, to assess what has been achieved to limit outdoor recreational noise, what methods have proven effective, and what have not, what regulations have been drafted or promulgated, and what measurement methods have been prescribed. Of particular interest are:

- The preservation of natural quiet in national parks and wilderness areas
- noise from amusement parks and theme parks
- noise from outdoor sports events (including speedways and other motor sports)
- noise from outdoor concerts
- noise from outdoor (civilian) shooting ranges
- music from stereos, boom boxes and vehicles
- noise from low flying sporting and military aircraft including microlights
- noise from motorised recreational watercraft

Excluded from the study are those recreational activities and performances that are undertaken indoors with sound leakage from a building to the outdoor areas surrounding the building.

All of these are being investigated, but the study group is not large and extra help may have to be co-opted to complete the study.

To date the group has documented the state of affairs in North America, Australasia, much of Europe and, to a lesser extent, parts of Far East Asia, and a pattern is beginning to emerge. It would appear that unless the activity affects the public as a whole in a residential area, little if anything is done to control the noise. On the other hand reverse sensitivity is becoming an issue and major recreational activities, such as motor racing circuits, which have been set up well away from inhabited areas so as not to cause disturbance, are now being threatened by urban growth - indeed a number of major facilities have been forced to close down by new residential development.

The national parks and wilderness areas pose quite a problem, for the very upkeep of the parks depends on accessibility to the public, and the public requires transport which makes noise that the park doesn't want or at least must manage. Of particular interest too have been reports in medical journals of illness as a direct result of uncontrolled noise from recreational activities in areas of the world where such activities and noise would be totally unexpected.

Much of the base work has been completed in this first year, and the technical study group will be consolidating its work, as well as trying to get information from some countries where none so far has been forthcoming. No meeting is planned in the Hague as most members do not have the financial resources to travel there. The study communications will continue to be by email.

Immediately before Internoise 2002, however, a second Symposium on Recreational Noise will be held in Key Largo Florida. The programme will include visits to neighbouring Biscayne and Everglades National Parks where noise issues may be experienced first hand. It is hoped that this symposium will be able to attract not only acousticians who are interested or involved with recreational noise in park settings, but also park management or decision makers who need assistance from the acoustical community, recreational sociologists who can speak to the issues of recreation and human needs, and others, such as those who spend their lives recording and documenting the sounds of nature.

The technical study group plans to meet immediately after the symposium to update its work accordingly, and in time for presenting a draft of its work to Internoise 2002 the following week.

In the meantime the study will continue. If any members from countries in Central and South America, the African nations, Russia, India or China could give the group any information on recreational noise and its effects in their country, it would be very much appreciated.

Philip Dickinson (Convener)  
Massey University, Wellington, New Zealand  
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## **Attachment 3: TSG #2 Report**

**2001-08-08**

### **I-INCE TSG on NOISE LABELS FOR CONSUMER AND INDUSTRIAL PRODUCTS**

#### **Convenor**

Bernard F Berry

UK Institute of Acoustics [Vice-President for International Relations]

Director

Berry Environmental Ltd, UK

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**Convenors Report to I-INCE General Assembly.  
Monday August 27 2001.**

#### ***Membership***

The initial membership of the TSG was as follows

***Australia*** (Australian Acoustical Society) Warwick Williams;

***Belgium*** (Belgian Acoustical Association) Dominique Pleeck;

***Brazil*** (Brazilian Acoustical Society) Samir Gerges;

***Czech Republic*** (Czech Acoustical Society);

***Japan*** (INCE/Japan) and (Acoustical Society of Japan) Ikuo Kimizuka ;

***Korea*** (Korean Society for Noise and Vibration Engineering) Doo-Hoon Kim;

***Norway*** (Acoustical Society of Norway) K. Selvaag;

***Slovenia*** (Slovenian Acoustical Society) N. Holecek and J Rejec;

***Turkey*** (Turkish Acoustical Society) Hakan Serafettinoglu;

***United Kingdom*** (Institute of Acoustics) Bernard Berry;

***U.S.A.*** (Acoustical Society of America) Robert Hellweg and Joe Pope;

***U.S.A.*** (INCE/USA) Robert Hellweg.

#### ***First Meeting***

The TSG held its 1st meeting on 29 August 2000 at Internoise 2000 in Nice. Present were Berry, UK; Hellweg, USA; Pleeck, Belgium; Selvaag, Norway; Serafettinoglu, Turkey; and Kimizuka, Japan.

The TSG discussed and agreed its Scope, based on that initially posted on the I-INCE website , but with modifications. It agreed a Workplan including, as a first priority, a survey of current methods of labelling, and related measurement methods, across I-INCE Member societies represented on the TSG.

### ***Survey of Current methods***

A Five item Questionnaire was produced by the Convenor in September 2000 and, after consultation with members of the TSG, was accepted as the basis of the Survey. It was distributed to members by email and the initial target date for completion of the survey was December 31 2000.

The UK input to the survey will be based on the NPL report by Berry and Porter, “A study of standard methods for measuring the sound quality of industrial products”, distributed to all members prior to the 1<sup>st</sup> meeting in Nice.

In April 2001 Norway submitted its contribution to the survey in a short report by Mr Selvaag.

Material from USA was promised in May, based on current ANSI work on a US version of ISO 4871.

No other formal responses to the Survey have been submitted to date.

### ***Second meeting August 2001***

A second meeting is planned for Monday August 27, just prior to the 2001 General Assembly. The Agenda was sent out on 18 July 2001.

The Norway contribution will be presented by Mr Selvaag, and discussed.

At the request of Professor Gerges, this meeting is expected to include a presentation from Dr Marco Nabuco of INMETRO Brazil on experiences in that country.

The draft US / ANSI version of ISO 4871 will be available for the meeting.

A report from Japan is expected, based on (1) current status/plan of ISO 4871, ISO 7574 series and related noise test code of Japan, (2) status of such standards in Republic of China, and (3) Japanese eco-label, “Eco-mark” noise requirements of information technology equipment (copiers, printers and personal computers).

A revised Workplan and timetable will be agreed at that meeting. The report to the General Assembly will include outcomes from the TSG meeting earlier that day.

Bernard F Berry  
8 August 2001

## **Attachment 4: TSG#3 Report**

Report of the activity of I-INCE Technical Study Group #3 “Noise Policies and Regulations”,

By Hideki Tachibana (Japan) and William W. Lang (USA)

In Fort Lauderdale (1999 December), the General Assembly decided to go forward with the study of the effectiveness of noise control and exposure policies around the world. According to this decision, the TSG #3 “Noise policies and regulation” was established with the following members from many countries.

Convener: Hideki Tachibana (Japan)

Co-Convener: William W. Lang (USA)

Members: Gisela Vindevogel (Belgium), Josef Novak (Czech Republic), Pierre-Etienne Gautier (France), Andrea Franchini (Italy), Jiro Kaku (Japan), Soogab Lee (Korea), Sigurd Solberg (Norway), Primoz Gspan (Slovenia), Selma Kurra (Turkey), Bob Peters (UK), Paul Schomer (USA), Larry Finegold (USA)

On August 27, 2000, in Nice, the first meeting of the TSG was held. In this meeting, it was decided to assemble and catalogue the noise regulations and standards of each of the participating countries as the first phase of the study.

After the first meeting, the convener and the co-convener prepared the questionnaire including the following items and it was sent to all members by email.

- Q.1 Please describe the legislative and administrative structures for the enactment and enforcement of noise policies and regulations/standards in your country.
- Q.2 Please enumerate the major laws and/or ordinances relevant to environmental noise problems in your country.
- Q.3 What is the nature of these laws and ordinances?
- Q.4 What is the subject which these laws and ordinances are applied to?
- Q.5 Please give the regulation/standard values specified in these laws and/or ordinances.
- Q.6 How effective have the noise laws proven in the reduction of environmental noise?

As a result of the survey, data of the following countries have been obtained.

Australia (West Australia, New South Wales, Queensland), Austria, Belgium (Flanders, Wallonie, Brussels), Denmark, Finland, France, Germany, Greece, Ireland, Italy, Japan, Korea, Luxembourg, Norway, Portugal, Slovenia, Spain, Sweden, The Netherlands, Turkey, UK, USA.

The second YSG #3 meeting is scheduled on August 28, 2001, in Hague. In this meeting, the results of the questionnaire survey will be presented and discussed.

## Attachment 5: TSG#4 Report

# I-INCE TECHNICAL INITIATIVE #4 NOISE AND REVERBERATION CONTROL FOR SCHOOLROOMS

## *INTERIM REPORT*

August 2001

## INTRODUCTION

The main objectives of the Technical Initiative #4 of I-INCE, have been determined as to develop recommendations;

- for standards, regulations or guidelines in order to optimize acoustic environment,
- for the cost-effective application of noise control and room acoustics technologies,

in learning spaces, as described at the I-INCE document.

This report summarizes the work realised by the group within the first year and explains the work intended for the next year.

## WORK REALISED WITHIN THE FIRST YEAR

1- After several correspondences with the group members, a document covering information on the expected study and a work programme proposal has been prepared and distributed to the members of the TSG (31 July 2000), before the first meeting.

2- The first meeting has been held at 29 August 2000 by the participation of 14 colleagues. The study group which is enlarged after the first meeting held at 29 August 2000, consists of the scientists given in Table 1.

<b>Representative</b>	<i>Country</i>	<i>e-mail</i>
Warwick Williams	Australia	Warwick.Williams@hearing.com.au
Gerrit Vermeir	Belgium	gerrit.vermeir@bwk.kuleuven.ac.be
Murray Hodgson	Canada	hodgson@mech.ubc.ca
Tomas Rozsival	Czech Republic	Akustika@tnet.cz
Michel Vallet	France	mvallet@inrets.fr
Agnes Pota	Hungary	pota@freemail.c3.hu
Luigi Maffei	Italy	maffei@unina.it
Toshiko Fukuchi	Japan	fukuchi@nagata.co.jp
Sun Woo Kim	Korea	swk@chonnam.ac.kr
Philip J. Dickinson	New Zealand	Philip_d@iconz.co.nz



Joanne Valentine		joanne@marshallday.co.nz
Ronny Klæboe	Norway	rk@toi.no
Primož Gaspan	Slovenia	primoz.gspan@guest.arnes.si
Carsten Svensson	Sweden	carsten.svensson@ecophon.se
Nese Akdag	Turkey	nakdag@yildiz.edu.tr
Bridget Shield	UK	shieldbm@sbu.ac.uk
David Lubman	USA	dlubman@ix.netcom.com
Lou Sutherland		lou-sutherland@juno.com
<i>Zerhan Karabiber (Convener)</i>	<i>Turkey</i>	<i>karabi@yildiz.edu.tr</i>

3- At the first meeting, the outlines of the working programme has been designed as follows;

- Collecting together all the current information (including standards, guidelines, recommendations etc. and various studies) on school and classrooms acoustics.
- Determination of different architectural, cultural and environmental properties.
- Investigation on cost-effective methods and materials that can be used in schoolrooms acoustics improvement.
- Construction of a template methodology or recommendations list.
- Encouragement of the participation of other countries -like Mexico, Argentina - to the study group.
- Attempts to be in contact with international entities such as WHO, ISO and UNESCO.

Each member of the study group is asked initially to examine the state of affairs in his/her own country and neighbouring countries, and to assess also the views of the general public.

Several members of the group mentioned that they are volunteers for different parts of the study. It has been decided that everybody will send the accumulated information to the related members together with the convener.

4- The report of the first meeting has been prepared and sent to the team members on 25<sup>th</sup> of September 2000.

5- Several documents and information have been received from the colleagues until now. These cover;

- Different types of publications (reports, articles in journals, papers in conference proceedings etc.)
- Standards, recommendations, etc.;
  - Australian / New Zealand Standard
  - France; L'arrete du 9 Janvier relatif a la limitation du bruit dans les etablissement d'enseignement. NOR: ENVP9430388A
  - Italian Standard (information in English)

- Japanese Standard (information in English)
- Swedish Standards (as soon as ready)
- Turkish Noise Control Regulation (information in English)
- UK, Guidelines for Environmental Design in Schools
- USA, ANSI Standards (as soon as ready)
- WHO, Guidelines for Community Noise

➤ Information on recent research projects

6- A list covering received documents has been prepared and sent to group members (30 July 2001).

7- No information on architectural, cultural and environmental properties differences has been received yet.

## **WORK PLANNED FOR NEXT YEAR**

The collected documents and information on previous and current researches have to be classified and presented as appropriate tables.

A table showing current national and international guidelines together with a summary of different levels have to be prepared.

Works on school buildings and classroom types should be realised.

Cost effective application of noise control and room acoustical technologies should be investigated.

Establishment of recommendations has to be done.

## **DISSEMINATION ACTIVITIES**

The activity has already been announced at two different congresses;

- Progress report on I-INCE technical initiative for schoolroom acoustics  
David Lubman, Louis C. Sutherland, Zerhan Karabiber,  
*NOISE-CON 2000 & 140<sup>th</sup> Meeting of ASA, 03-05 December 2000, California, USA*
- An international attempt to improve schoolrooms acoustical quality  
Zerhan Karabiber, David Lubman, Louis C. Sutherland  
*EURO.NOISE 2001, 14-17 January 2001, Patras, Greece*

An invited paper will be presented at NOISE-CON 2001;

- The I-INCE technical initiative for schoolrooms acoustics  
Louis C. Sutherland, David Lubman, Zerhan Karabiber

A special session on Classroom Acoustics has been organised and will be realised at 17<sup>th</sup> ICA, Rome, Italy, [www.ica2001.it](http://www.ica2001.it) by David Lubman and Louis C. Sutherland

A special session “Classroom Acoustics”, is being organised at the INTER-NOISE 2002, Dearborn, USA, [www.internoise2002.org](http://www.internoise2002.org) , by Zerhan Karabiber and Michel Vallet

#### NEXT MEETINGS

Second meeting of the TSG will be realised at 27 August 2001 at The Hague. An informal meeting is being organised during the 17<sup>th</sup> ICA at Rome, for those colleagues who are not able to attend the second meeting.

#### CONCLUSION

Great part of the work planned for the period has been realised within the first year, however there is still much do. Several difficulties can be mentioned from which the most important are those concerned with correspondences and feedback. The goals of the technical initiative can only be achieved in time by a strict planning and a good collaboration of the group members.

**Zerhan Karabiber**  
**Istanbul, 02 August 2001**