

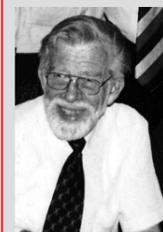
the  
journal

# ICNDT journal

The Official  
Journal of the  
**International  
Committee for  
Non-Destructive  
Testing**

July 1999 – Issue n. 3

*The world Organisation for NDT*



**Mr Ragnar  
Soevik**

died  
in January 1999

I recall our last meeting in Copenhagen during the foundation of EFNDT. In particular, I recall Ragnar's warm smile, welcoming nature and his visible joy at seeing so many coming together at such an important event. Ragnar was an active member of ICNDT for over 20 years and we feel his loss greatly. We wish to extend our sympathies to his family and friends. We thank you Ragnar for all that your friendship has taught us.

*The ICNDT President*

**15-21 October 2000**

**It's coming!**

**Roma 2000 15<sup>th</sup> WCNDT**

*Preparations for the*

*15<sup>th</sup> World Conference of ROMA 2000*

*are well underway. The Palace of congress, the places hosting the various social events, the Papal audience have all been fixed.*

*To date some suggestions for special sessions include: welding, aircraft, certification, civil engineering, works of art, case histories... to name but a few.*

*The proceedings will be available*

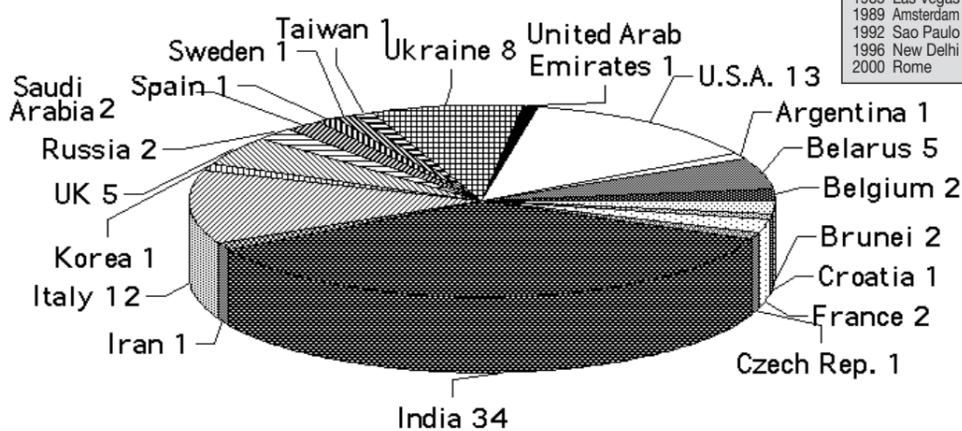
*on CD-ROM and, on request, in printed format.*

*Starting September '99 on the AIPnD website*

*you can keep updated on Roma 2000.*

**Deadline for abstract submission  
31 December 1999**

**Representation of abstracts submitted by June '99**



YEAR	CITY	COUNTRY
1955	Brussels	Belgium
1958	Chicago	U.S.A.
1960	Tokyo	Japan
1963	London	U.K.
1967	Montreal	Canada
1970	Hanover	Germany
1973	Warsaw	Poland
1976	Cannes	France
1979	Melbourne	Australia
1982	Moscow	Russia
1985	Las Vegas	U.S.A.
1989	Amsterdam	The Netherlands
1992	Sao Paulo	Brazil
1996	New Delhi	India
2000	Rome	Italy

**Mr. B. Raj**  
Past President  
of ICNDT,  
President of  
PGP Committee



*It's a pleasure to meet the Non-Destructive Testing professionals from around the world and the members of the International Committee on Non-Destructive Testing (ICNDT) and PGPC through this issue of the ICNDT Journal, the style and contents of which are very appealing. I am happy to see the tremendous progress made by Dr.G.Nardoni and his team in arranging the 15<sup>th</sup> World Conference on Non-Destructive Testing. We wish to see breakthroughs in NDE science and technology reported in this Conference and a large, truly world-wide attendance.*

*The upcoming world conference in Rome and the PGPC and ICNDT meetings provide us with yet more opportunities to take stock of our progress. The PGPC can help realise the vision of ICNDT by way of detailed brain-stor-*

*ming on the key issues and making concrete recommendations to the ICNDT for approval. In order to achieve this we propose to have a stand alone meeting of the PGPC, in the near future. What are your views on a stand alone PGPC Committee meeting for three days? Costs may be high but returns can be tremendous. Please think it over.*

*Some areas that we feel need attention are: increasing the awareness about NDT and its applications, particularly in developing countries, preparation of authoritative overviews by a team of international experts on specific issues in transportation, energy, chemical industry, landmines, etc. etc., identification of new standards in areas where they do not exist, harmonisation of standards and personnel qualifications, increased thrust in new areas in NDT*

*such as robotics, automation, artificial intelligence and intelligence-processing of materials, creation of special interest groups in these areas and the creation of a full-fledged PGPC/ICNDT Website.*

*Readers of this Journal are also most welcome to share their views about these and other aspects of interest through the columns of this Journal, so that a consensus on the agenda of PGPC for the coming few years can evolve.*

*I take this opportunity to wish Dr. G. Nardoni and his team all the very best in their tireless preparations for the forthcoming 15<sup>th</sup> World Conference on NDT.*

*We are all with you, Dr. G. Nardoni.*

Baldev Raj  
Chairman of PGPC

**ICNDT**

ICNDT Publication

Editor: ICNDT  
Managing Director: G. Nardoni  
Issued: Quarterly  
Printed copies: 15000  
Subscription: 10\$  
Address: Via A. Foresti, 5A  
25127 Brescia (Italy)  
Tel. ++39 030 3739173  
Fax ++39 030 3739176

# Letters, Messages, Events joined with ICNDT

## TURKEY

### The NON-DESTRUCTIVE TESTING COMMITTEE of the Chamber of Metallurgical Engineers of Turkey

The NDT Committee was established in the Chamber of Metallurgical Engineers in 1987. In 1988 the NDT training and certification program was started. In July 1988, based on the project agreement between Turkish and German governments, NDTC and middle East Technical University (METU-Ankara) started to implement a training, qualification and certification program with the participation of DGZfP and BAM-Berlin. In the frame of the same project, the Welding Technology and NDT Centre was established on the premises of METU.

A group of engineers from the METU and industrial firms were trained and certified in several NDT methods to level-3, in Germany between 1989 and 1992. With the participation of these groups, the NDTC prepared an activity plan consisting of regular programs for training, qualification and certification for NDT personnel in Turkey and then finally established the Turkish NDT Society. After July 1993, the system of the training courses and the qualification exams were adapted to EN 473. Parallel to the improvements in Europa an independent certification body, NDT-Personnel Certification Centre, was established in 1996. Since then, the NDT training and qualification-certification activities have been carried out independently.

By the end of 1998, the total number of participants who attended the training courses of different levels in various NDT methods was 1532. In the same period, a total of 111 courses (88 level-1, and 23 level-2) were realized. The sectorial distribution of the participants in sequence is as follows: machining and construction, chemical and petro-chemical, defence, university-institution, metallurgy, NDT service, transportation and ship building.

#### Contact Address:

Chamber of Metallurgical Engineers  
NDT Committee  
Hatay Sk. No. 10/9, 06650 Kizilay-Ankara, Turkey  
Tel. 00-90-312-4254160 - Fax 00-90-312-418 9343  
E-mail: metaloda@turnet.net.tr

1<sup>st</sup> International NDT Symposium and Exhibition  
29 September - 01 October 1999

METU Cultural  
and Convention Center, Ankara - Turkey  
organized by NDT Committee  
of Turkish Chamber of Metallurgical Engineers



M. K. Atatürk  
the first President of Turkey

## GREECE

ΕΛΛΗΝΙΚΗ ΕΤΑΙΡΕΙΑ ΜΗ ΚΑΤΑΣΤΡΟΦΙΚΩΝ  
ΕΛΕΓΧΩΝ (ΕΛΕΜΚΕ)  
Εθνική Εταιρεία, Μέλος της ICNDT και της  
ICNDT



HELLENIC SOCIETY  
OF NONDESTRUCTIVE  
TESTING (HSNT)  
National Society,  
Member of ICNDT  
and EFNDT

### NDT in Greece



The Hellenic Society for Non-Destructive Testing (HSNT), was founded in Greece in 1987. Today, HSNT encompasses more than 270 members who come from the universities and industries of the country. In the society there are also foreign associated and individual members. More than 80 hellenic industries, companies and organisations are using NDT, with approximately 1000 NDT inspectors. The main purpose of the association is to promote the technology of NDT in Greece. HSNT is the only national association for NDT in Greece, and is a member of EFNDT and of ICNDT. HSNT organised, on 23<sup>rd</sup> of November last its first national conference on NDT in Athens and also co-or-

ganised with AIPnD, BANT, the Vrije University of Brussels and the University of Patras its 2<sup>nd</sup> International Conference on NDT, last May 24-26, in Athens. The next National Hellenic Scientific and Technical Conference in Non-Destructive Testing will be held in November 1999, in Thessalonika.

The main target of HSNT today is to achieve its Accreditation as an Independent Certifying Body, according to En 45013 standard, from the Hellenic Council for Accreditation, in order to be able to run examination centres for qualification and certification of NDT personnel in Greece.

The President of HSNT  
Dr. Ioannis Prassianakis  
Assoc. Professor at the NTUA

## UKRAINE

### NDT in Ukraine by Prof. Troitskij



"The Ukrainian Society for Non-Destructive Testing and Technical Diagnostics (USNDT) was founded in 1990 on the base of E.O. Paton Electric Welding institute of National Academy of Sciences, which is one of the leading institutions in the world in the field of welding and relative technologies. The aim of the Society's activity is consolidation of the efforts of scientists and engineers for development of the creative and business activity, information exchange, the satisfying of professional interests, and development of international contacts in NDT&TD. One of the main aspects of USNDT activity is organising conferences, seminars, exhibitions and meetings of experts.

In 2000 the USNDT will celebrate the 10<sup>th</sup> anniversary of its foundation. The 3<sup>rd</sup> Ukrainian Scientific Conference on Non-Destructive Testing and Technical Diagnostics is dedicated to this event. The conference will be held in May, 2000 on the eve of the 15<sup>th</sup> World Conference on NDT. It will bring together specialists, developers and users of NDT technologies and means. All foreign companies and colleagues interested in participation in our Conference and Exhibition are invited. The detailed information on this event will be forwarded to ISNDT Journal in September.

Since January, 1999 the USNDT has started to issue an information bulletin publishing the NDT news in Ukraine and abroad. It contains information on domestic and international USNDT activity, articles on topical issues of NDT&TD organisation, material of conferences and seminars and advertisements of NDT equipment. The bulletin is issued 6 times a year; It is the second publication of USNDT. The main USNDT publication is "The Technical Diagnostics and Non-Destructive Testing" scientific journal, which has been published since 1990. The articles on theoretical and applied problems of NDT&TD are contained in it.

Ukrainian Society for NDT  
Prof. V. Troitskij, President  
Bozhenko St., 11 - 252650 Kiev - Ukraine  
Fax +380 44 220 94 82  
E-mail: paton@ukrpack.net

## RUSSIA

### ICNDT President in Moscow, the city that hosted the 1982 WCNDT



Prof. V. Kluyev opening the National Conference of RSNDT.

The ICNDT President Mr. G. Nardoni attended the Russian National Conference on NDT held in Moscow from 28 June to 2 July 1999. Representatives of Spain, USA, Czech Rep., Denmark, Belarus and Germany also attended. More than 800 delegates were present to follow the 250 technical papers. The exhibition was a huge success with over 40 display stands amongst which were represented many small Russian Enterprise and Research Institutes.

## GERMANY - BERLIN

### Full agreement reached on the major issues at EFNDT Board of Directors' meeting.



The dinner of the Board of Directors.

The Board of Directors of the EFNDT met in Berlin on 30-31 March 1999 hosted by DGZfP. The meeting chaired by the EFNDT President Schnitger and attended by Link (DGZfP), Deliege (Belgium), Krsteli (Croatia), Larsen (Denmark), Roche and Poudrai (France), Farley (UK), Nardoni, Gatti and Ghia (Italy), Kjulev (Russia) and Romero (Spain), discussed a number of important items including an endorsement of the new ICNDT Constitution.

The EFNDT meeting provided the context for the working together of Eastern and Western European Representatives. It was a meeting characterised by its open and collaborative spirit, where European Partners discussed NDT problems, over a three day period. Some of the more important items on the agenda included:

- European Certification Programme. The first target of this programme is the preparation of a Data Base of questionnaires, according to EN 473 or ISO 9712, to be available to all European examination bodies.

- Land-Mines. Data regarding the quantity and more importantly, the disastrous consequences of land mines in the world is very provoking. A special Working Group, with the sole objective of developing equipment to be used in the detection of such devices, was set up with Ms Vjera Krstelj as convenor.

- The ICNDT new Constitution and Terms of Reference was approved by the EFNDT.

- The need for harmonisation and mutual recognition of NDT schemes was acknowledged. The planning of a new strategy, in response to this, was undertaken.

- The EFNDT is actively seeking ways to reduce some of the European restrictions concerning the transportation of standard isotopes as used in industrial radiography.

- The current status of EFNDT Membership was updated. The Israeli Society for NDT (ISRANDT) was accepted as an Associate Member. The President also invited Brazil, Japan, India and USA to join EFNDT as Associate Members.

- A new WG was established for laboratories and inspection bodies.

## ITALY

### Art '99

The 6<sup>th</sup> International Conference on "Non-Destructive Testing and Microanalysis for the Diagnostics and Conservation of Cultural and Environmental Heritage" has been held in Rome 17-19 May 1999. The event, organised by The Italian Society for NDT and The Central Institute of Restoration, follows those held in Budapest, Berlin, Viterbo, Perugia and Rome, in the past. About 300 International Experts attended the Conference hosted by the Palazzo Brancaccio and "La Sapienza" University. Authors coming from various countries presented 119 oral papers and 59 posters over 28 work sessions. 78 papers were concerning monuments analysis while 34 were relating to paintings. The Conference, sponsored by Agfa, was also enriched by a special Exhibition and a fine social programme, which gave the participants the opportunity to visit the incomparable and beautiful city of Rome.

## The global mutual recognition project

# ICNDT inquiry on certification in the world

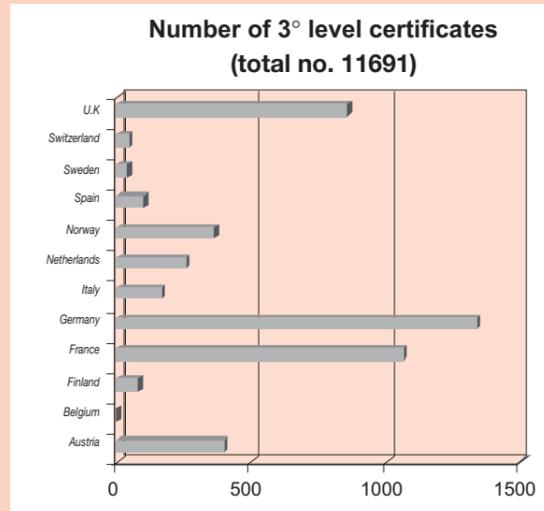
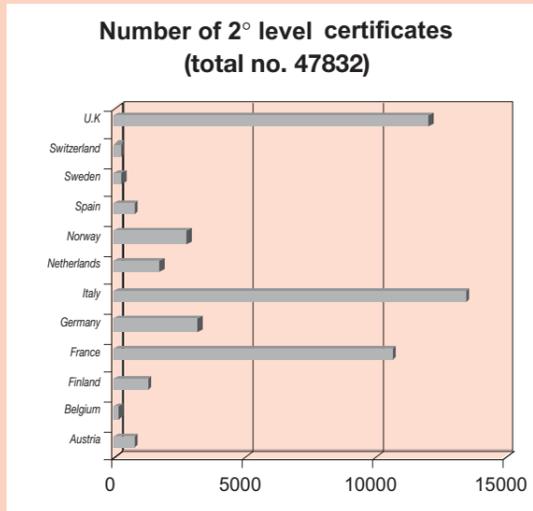
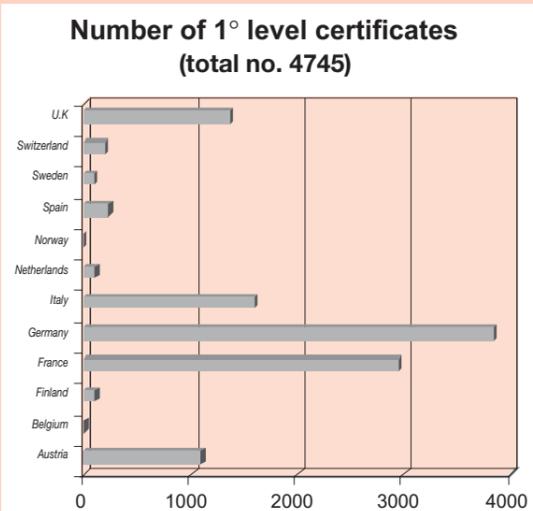
The ICNDT Journal starts its reporting of results of its inquiry on the number of certificates issued in the world according to ISO 9712 or equivalent. Each Country is invited to contribute.

## NUMBER OF NDT CERTIFICATES ISSUED IN EUROPE BY INDEPENDENT CERTIFICATION BODIES ACCORDING TO ISO 9712 RECOMMENDATIONS

Total certificates issued number: 64268 from 12 countries by December '98



R. Roche (right) and Poudrai Permanent Secretary of COFREND



### DETAILS OF REFERENCE DOCUMENT VS COUNTRY

Ref. Doc. / Country	Austria	Belgium	Finland	France	Germany	Italy	Netherlands	Norway	Spain	Sweden	Switzerland	U.K.
EN 473	*	*	*	*	*	*	*	*	*	*	*	*
ISO 9712	*	*	*		*						*	*
PrEN4179				*								
ISO 11484			*									
Nordtest R.			*					*		*		
SNT-TC1A			*									

(Data from a COFREND paper presented by R. Roche at the 7th ECNDT)

- 1° level certificates → 4645
- 2° level certificates → 47832
- 3° level certificates → 11691

The number of certificates issued in relation to the total population of the 12 countries is 1:4000.

## ICNDT Secretariat open Window



S. Ghia (Technical Director of ICNDT)

### ICNDT Benefactors list

ICNDT do not have a proper fund. All the activity is made on a voluntary basis. The only funds come from Benefactors and ICNDT Journal Subscriptions. AIPhD (Italian Society for Nondestructive Testing Monitoring Diagnostics) has made a contribution of 20.000 \$ necessary to organise the permanent Secretariat, to print the ICNDT Journal and to start the activity foreseen in the Constitution.

Other Benefactors are welcome! ICNDT Benefactors will be listed in the next issue of the Journal.

ICNDT Secretariat

### ICNDT Subscriptions

Subscriptions to "The ICNDT JOURNAL" are welcome! Subscription for 4 issues (one year): 10 \$, Payment to: ISTITUTO BANCARIO SAN PAOLO DI TORINO Brescia n° 5 Agency - Via Crotte, 25127 Brescia - ITALY Bank Account: IBSP IT TM 154 c/c 434 Your support is essential to the continuance of this publication.

The ICNDT Secretariat, with a view to maintaining a close, lively link with its membership, issues this column devoted to publishing news, information or simply messages received from Societies. All are invited to take part in keeping this column alive!



Mr. M. Farley (General Secretary of ICNDT)



We'd like to take this opportunity to welcome Eleanor Rochfort to the ICNDT team. Eleanor, a graduate of Maynooth University, Ireland, will be working closely with Mr. Ghia (Technical Director of ICNDT). We wish her every success!

### Abende's new Board of Directors:

**President**  
Maria Izabel Laczko Gebrael

**Vice President**  
José Santaella Redorat Júnior

**Directors:** Cláudio Soligo Camerini, Edson Vasques Moreira, Pedro Feres Filho, Siciliano Francisco

**Main Board:**  
**Chairman:** Amilton Carvalho  
**Vice Chairman:** Maria Izabel Lacko Gebrael

Alcides Taveira, Alejandro Spoerer Del Rio, Carlos Soligo Camerini, Claudio Cabrera, Danilo Lohse Di Stefani, Detlef Werner Shultze, Eduardo Cortes Sarmento, Hélio Nehrer de Souza, João Rufino Teles Filho, Luis Cesar de Almeida, Oswaldo Rossi Junior, Raimar Eckard Schmidt, Rodolfo Hartmann Fraga Moreira



The Printers (Brescia-Italy). The first issue of ICNDT Journal ... Hot off the press!

### The ICNDT Directory on Internet

With a view to updating the ICNDT Directory, a questionnaire has been circulated by the Secretariat, to the NDT Societies of the world.

Responses have been received from: Japan, Australia, Hungary, New Zealand, Yugoslavia, Switzerland, Slovakia, Canada, France, Ukraine, South Africa, Israel, The Netherlands, Spain, Slovenia, Bulgaria, Norway, Romania, Croatia, Austria, Belarus, Brazil, Czech Rep. and Ireland.

We would kindly request those countries which have not yet responded, to do so at their earliest convenience.

Any Societies which have not received questionnaires are asked to contact the ICNDT Secretariat in order to help us compile the necessary information. (fax no. +39 030 3739176, e.mail: aipnd@mail.protos.it, Tel.: +39 030 3739173).

### ICNDT Journal Distribution

Any Society interested in promoting the ICNDT journal amongst its members is asked to contact ICNDT secretariat specifying the no. of copies required (free postage of journals). Copies of the second issue have been forwarded to the following Societies:

BINDT - UK	3000
DGZfP - Germany	1700
SNDT - Canada	1500
AEND - Spain	200
ASNT - USA	200
RSNDT - Russia	200
BANK - Belarus	200



Mr. Gilbert, INSIGHT editor

Help promote the ICNDT Journal!



# 15<sup>th</sup> World Conference on Non-Destructive Testing

Roma (Italy) - 15-21 October 2000

Major sponsor **AGFA**

*Conference under the High Patronage of The President of the Italian Republic*

## The exhibition

2000 m. sq. available!  
1300 m. sq. already booked.  
*Don't delay!*  
Choose your area to exhibit your products!  
It's a real investment for your business.

*Book your exhibition area now!  
Invest for the future*

## Authors of technical papers

Authors are called to present title and summary  
not later than December '99  
*Don't wait!*  
Send your titles and summary as soon as possible!  
Early submission of titles and abstracts  
will greatly assist the organising of the technical programme.

*Don't delay,  
send your title  
and summary now!*



**Exclusive sponsors:**



*Contact ICNDT  
with any inquiry concerning  
NDT in the world*



*Hello!  
Ciao!  
Come to Roma!*

*Stay in contact  
with the  
Conference  
Secretariat*

*Reserve immediately  
your Hotel room!  
Don't wait!*

## ICNDT SECRETARIAT

**G. Nardoni President**  
S. Gbia Technical Director

Via A. Foresti, 5A - 25127 BRESCIA (Italy)  
Tel. ++39 030 3739173 - Fax ++39 030 3739176  
personal phone: 0039-348-2280470  
E-mail: aipnd@mail.protos.it  
home page: <http://www.aipnd.it>  
International Committee for NDT

## SECRETARIAT OF THE CONFERENCE:

### AIPND

Italian Society for Non-Destructive Testing  
Monitoring Diagnostics  
Via A. Foresti, 5 - 25127 BRESCIA (Italy)  
Tel. ++39 030 3739173 - Fax ++39 030 3739176  
E-mail: aipnd@mail.protos.it  
home page: <http://www.aipnd.it>

## Hotel Reservations

1500 rooms reserved!  
300 rooms already booked!  
Don't delay  
Book now! You will have better  
accommodation close to the congress hall.  
Call our Agency, Mrs Daniela Zibellini  
will help you.

### TRIUMPH P.R.

15<sup>th</sup>. WCNDT  
Via Proba Petronia, 3 - 00136 ROMA (Italy)  
Tel. ++39 06 39727707 - Fax ++39 06 39735195  
E-mail: triumph@tin.it