

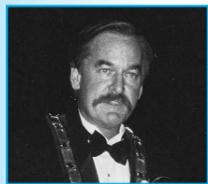
THE  
Journal

# ICNDT Journal

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

Year two – Issue n. 2  
June 2000

*The world Organisation for NDT*



R. Doggart



A. Khan



F. Herelli



G. Aufricht



G. Shoeff



V. Krstelj



Mr Guo



Mrs Zbu



## ICNDT: a frame for the NDT global village

*With the emergence of new NDT Groups from Africa, South America, West and Far Asia, ICNDT is preparing to welcome all into the one global NDT Community.*

The forthcoming 15<sup>th</sup> WCNDT is fast approaching! The tremendous efforts required in the organising of such a conference continue to be made and it is in this light that we take a brief look at our progress to date.

The announced technical programme includes 750 papers submitted by authors coming from 50 countries, 12 plenary lectures covering several aspects of NDT technology, a number of workshops and panel discussions, special meetings and more. Already we have confirmations from 40 various NDT Societies that they shall be in attendance at the conference.

A great success is taking shape, thanks to the dedicated work of the many individuals who contribute in so many ways to the event.

Roma 2000 will provide the opportunity to evaluate the growth of the NDT International Community in terms of capability in working together towards a common goal.

Nowadays, the power of the electronic communications network makes the world smaller and ICNDT is the ideal frame for a "so called" NDT Global Village! It should provide the framework for the exchange of our scientific and technological knowledge to enhance technical achievements and to give shared opportunity, to all people, world wide, in facing common markets. This goal is well tailored within the scope of ICNDT.

The Permanent Secretariat, established 2 years ago by ICNDT/PGP Committee has been working to give contents to the ICNDT scope. Several initiatives have been taken around the world in order to promote the forthcoming WCNDT and to encourage ICNDT membership. Following the 7<sup>th</sup> European Conference, Copenhagen-1998, one or more ICNDT representatives were present at the international NDT events and conferences held in Austria, China, Croatia, Germany, Lebanon, Russia, South Africa, Spain, UK (twice) and USA (twice).

In the meantime the quarterly ICNDT Journal started profiling the activities of both NDT Societies and Regional Groups. Up to now, six issues have been published, 10.000 copies each, shipped all over the world. A precious thread linking the NDT Community!

Also, the ICNDT secretariat carried out a strong promotional campaign to encourage the foundation of new Associations as well as encouraging their membership of ICNDT. This work was very satisfying and today there are 54 NDT entities recorded in the ICNDT Directory (of which include those still to be presented at the Working Group for Membership and to be ratified at the next ICNDT plenary meeting).

ICNDT Secretariat is very grateful to all of those who have contributed to the updating of the ICNDT Directory (see last page) and who will also do so in the future.

We wish to extend a special welcome to the latest additions to the ICNDT group, namely: Algeria, Colombia, Costa Rica, Kenya, Malaysia, Pakistan, Sri Lanka, Uruguay, Vietnam.

### Current country members

ARGENTINA, AUSTRALIA, AUSTRIA, BELARUS, BELGIUM, BRASIL, BULGARIA, CANADA, CHINA Rep. CHINA Rep.-Taipei, CROATIA, CZECH, DENMARK, FINLAND, FRANCE, GERMANY, GREECE, HUNGARY, INDIA, IRELAND, ISRAEL, ITALY, JAPAN, NETHERLANDS, NEW ZEALAND, NORWAY, POLAND, ROMANIA, RUSSIA, SOUTH AFRICA, SOUTH KOREA, SPAIN, SWEDEN, SWITZERLAND, UNITED KINGDOM, USA, YUGOSLAVIA.

### Applying countries

ALGERIA, BOLIVIA, BOSNIA and HERZEGOVINA, COSTA RICA, ECUADOR, EGYPT, KENYA, MALAYSIA, MOLDOVA, PAKISTAN, SLOVAK, SLOVENIA, SRI LANKA, TUNISIA, TURKEY, UKRAINE, URUGUAY, VENEZUELA, VIETNAM.

### Expected countries

IRAN, IRAQ, JORDAN, LEBANON, MAURITIUS, MOROCCO, NIGERIA, SAUDI ARABIA, SYRIA.

*Everyday, ICNDT  
is becoming more and more "global!"*



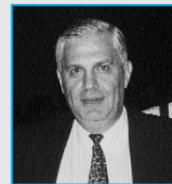
D. Marsbal



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B. Larsen



G. Nardoni



M. Gebrael



B. Raj



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**ICNDT**

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### ASNT CENTRAL CERTIFICATION PROGRAM (ACCP)

#### ASNT's New NDT Certification Program

- ❖ The Next Generation in Nondestructive Testing Personnel Qualification and Certification
- ❖ Qualification and Certification of NDT Personnel Based on ISO 9712
- ❖ Provides a Defined Level of Performance and Competency
- ❖ Independent, Third Party Assessment
- ❖ Written Examinations and Hands-on Practical Examinations for Level II and Level III Personnel in MT, RT, PT, UT, and VT



For more information on ASNT Certification Examinations contact the ASNT Technical Services Department at (800) 222-2768 or (614) 274-6003.

New certification schemes, based on ISO 9712, are growing across the world. For more than 30 years SNT-TC-1A has been the major reference scheme for the certification of NDT personnel. For this historical role ICNDT will propose ASNT, editor of the document, to be recipient of the W. RONTGHEN HAWARD sponsored by ICNDT.

G. Nardoni

## Letters, Messages, Events joined with ICNDT

### NORWAY

#### THE NORWEGIAN SOCIETY FOR NON-DESTRUCTIVE TESTING

The Norwegian Society for Non-destructive Testing (NSNDT) was founded early in 1972. The NSNDT has always been operator-oriented, i.e. very much concerned about communication with the individual NDT operator. Therefore the Society has been very reluctant with respect to opening up for corporate membership, and has personal members only. The main reason for this is that due to the geographical 'shape' of Norway, those working with NDT or in the NDT area are to a great extent operating in small groups scattered among the heavy industrialised communities in southern Norway and along the coastline of south-eastern, southern and middle Norway, i.e. from the Swedish-Norwegian border and northwards approximately to Bodö – with only a few additional NDT firms in the northern part of Norway.

Most of the NDT firms in Norway are small, ranging from 1 – 2 operators and up to groups in the order of 20-40 operators. Most of these groups, or firms have very limited contact with each other on a day-to-day basis. Therefore, we in the NSNDT see it as a primary goal to keep in touch with as many of the individual operators as possible to try to assist them in keeping themselves professionally updated. Today, the NSNDT has approximately 500 members, which is about 25 % of the total number of certificated NDT operators in Norway.

The major activities of the Society are concentrated around two annual events and a publication of a technical journal with four annual issues. The two annual events are the annual general meeting and a technical conference, including an exhibition of NDT equipment, which takes place in May/June, and a level 3 seminar each fall. At the annual conference, which goes over two days, in the order of 120 – 170 participants gather to try to pick up some news from lectures, discussions with colleagues from other parts of the country and from abroad, and from vendors of NDT equipment.

Of the 1500 – 2000 certificated NDT operators we have in the country, about 5-8 % holds level 3 certification in one or more of the five 'major' NDT methods. At our level 3 seminars, 30 to 40 level 3 persons meet each fall for two days to penetrate in professional, procedural and technical/ethical matters.

Our technical journal, NDT-Information, is the main link between the NSNDT and our members. Last year the society also introduced [www.ndt.no](http://www.ndt.no) as a channel for information.

Also around 1975, the society was heavily engaged in development and implementation of the newly developed NORDTEST certification scheme for NDT-personnel. This scheme was developed on a Nordic basis by the NORDTEST organisation (a common Nordic body working towards reducing trade barriers between the Nordic countries). The first independent examination and certification of UT operators took place in Oslo in 1976 with support from the Society and with Det Nor-

ske Veritas as the independent national NORDTEST examination centre. Examination and certification of RT operators was initiated in 1983 and MT/PT operators in 1985. Certification of ET operators has also been available for some years now. Today Norway has two Independent Certifying Bodies, Det Norske Veritas and Eurocert, with accreditation to perform personnel certification according to EN 473/Nordtest.

The Norwegian Society for NDT has also been a member of the ECNDT and ICNDT for many years.

**Secretariat address:** The Norwegian Society for Non-destructive Testing, c/o CorrOcean ASA, Postboks 100, N-1376 Billingstad, Norway.

### USA

#### ASNT SPRING CONFERENCE

Birmingham, Alabama, hosted the ASNT Spring Conference last March 22-24.

The plenary lecture given in the opening session made a great impression on all those present – an astronaut, who was part of a medical research team presented a series of experiments, carried out in space.

The experiments were based on the creation of special drugs with calibrated crystal measured on board the spacecraft using an x-ray diffraction device.



Birmingham, Alabama, March 2000. Mr Culbertson President of Pan American Regional Group is speaking about his participation to Roma 2000. To his right Mr Daggart, the ASNT President.

The ICNDT President attended the International meeting of ASNT at which a special mention was made of the ISO 9712 Seminar to be held in Rome during the 15<sup>th</sup> WCNDT.

Dr. Daggart, ASNT President, along with Dr. Black, Dr. Culbertson, Dr. Vahaviolos, Dr. Sadek will be part of the ASNT delegation which will be present in Rome.



Mr Romero and Mr Serrano of ABENDE at the Exhibition in Birmingham. They will organise the next European Conference in Barcelona, 2002.

The important news that ASNT through its Central Certification Programme will follow ISO 9712 standard has been warmly welcomed as it brings us a step closer to the achievement of world wide mutual recognition of the certification schemes.

During the exhibition some of the most up to date equipment and techniques were on display and again this year the standard of exhibits was as always very high.



Birmingham, March 2000. The Research Council of ASNT during its annual meeting.

The ICNDT President was invited to join the ASNT Research Council which includes members from all over the world and which is very active in the field of research and is responsible for the editing of the journal 'Research in NDT'.

The conference was characterised by its relaxed and friendly atmosphere and was a great success.

### UNITED KINGDOM

#### MATERIALS TESTING 2000 exhibition reflects importance of NDT in engineering world

The materials testing 2000 exhibition, held 9-11 May 2000 at the National Exhibition Centre in Birmingham, UK, attracted a substantial number of influential visitors and many exhibitors recorded large numbers of serious enquiries.

Companies reported good quantities of leads to follow-up, further demonstrations requested, and orders as an immediate and direct result of the show. Exhibitors have reported that it was not only a great show but that the level of real interest shown by visitors has surpassed previous MT exhibitions.

Organised by the British Institute of Non-Destructive Testing (BINDT), the show featured special visitor attractions this year, with its programme of seminars, competitions and other visitor lead promotions.

The quality and standard of the exhibition stands and the products on display was exemplary – indeed, many visitors remarked on the professional appearance of the show. The consensus of opinion was that the show had been extremely well planned, organised, designed and laid-out, and the BINDT Pavilion, in particular, was a success and in its rightful place at the heart of the show.

The Leaders in Industry Forum on the first day of the exhibition proved once again to be a great success, generating a good number of key decision-makers to the show.

Addressing the Leaders in Industry Forum, Malcolm Shirley CEng, Director General of the Engineering Council, congratulated BINDT on an 'impressive' exhibition and said that it reflected the importance of NDT, materials testing, condition monitoring and diagnostic engineering in today's world of engineering. NDT and associated disciplines were essential in maximising production and end-product efficiency, quality and safety, said the Director General and materials testing 2000 was indicative of what engineering is all about – the application of leading technology and driving forward.

There was a number of special visitor attractions which all contributed to the success of the show. The RAF Hawk, brought to the show courtesy of the Royal Air Force NDT Squadron, was a fascinating attraction for visitors and exhibitors alike and the RAF team gave an interesting insight into the employment of a wide range of materials testing techniques and equipment used in the aerospace industry today. Exhibitors had obviously invested a great deal of time and money in producing superb displays. A number of new products were launched or on show for the first time.

To register your interest in the next materials testing exhibition, contact BINDT, 1 Spencer Parade, Northampton NN1 5AA, UK. Tel. +44 (0)1604 630124; Fax +44 (0)1604 231489; e-mail: mt@bindt.org.

PRESS RELEASE

AGFA Agfa

#### AGFA ACQUISITION OF WORLDWIDE KRAUTKRAMER ULTRASOUND BUSINESS AND TECHNOLOGY

**Mortsel (Belgium), 24.04.2000** – The Agfa-Gevaert Group (AGF), Mortsel (Belgium) announced today that they have received the approval of the cartel authorities of Germany, Austria and the USA, to acquire the entire, worldwide Krautkramer business, including Nukem Neutronics, from Emerson Electric Co (NYSE: EMR), St. Louis, Missouri/USA.

The Krautkramer business consists of the production and worldwide distribution of ultrasonic devices for the non-destructive testing of various materials, especially metals. Krautkramer sells portable as well stationary testing devices. In 1999, the Krautkramer business, with manufacturing plants in Hürth (Cologne, Germany) and Lewistown (Pennsylvania, USA) and offices in Germany, USA, Brazil, UK, France, Italy, Japan as well as other countries in the Far East, accounted for worldwide sales of roughly 100 million Euro. Krautkramer employs over 650 people worldwide.

"Non-destructive Testing is one of Agfa's core businesses less known to the general public. However, Agfa sells industrial radiography systems that are used to test the safety of eighty percent of the world's passenger aircraft, and most major pipeline projects around the globe are tested with Agfa receptors. With this acquisition Agfa broadens its technology base in the NDT-business adding high tech ultrasound hard- and software technology, which is considered to be one of the most promising and fastest moving technologies in non-destructive testing.", said Dr. Klaus Seeger, CEO of the Agfa-Gevaert Group.

#### About Agfa

The Agfa-Gevaert Group headquartered in Mortsel, Belgium ranks among the world's leading imaging companies. Agfa develops, produces and markets analog and digital systems, primarily for the graphics industry, medical radiology, non-destructive testing, micrographics, motion picture film and consumer imaging and photography markets. Agfa employs about 22,000 people in 40 countries, and has 120 agents throughout the world. Together, they achieved a turnover of 4,731 million Euro in 1999. Product and company information can be found on Agfa's home page on the World Wide Web at: [www.agfa.com](http://www.agfa.com)

#### About Emerson Electric Co

St. Louis-based Emerson Electric Co. ([www.emersonelectric.com](http://www.emersonelectric.com)) is a global leader in providing customers with innovative technologies and solutions in five business segments: electronics and telecommunications; process control; industrial automation; heating, ventilating and air conditioning; and appliance and tools. Sales in fiscal 1999 were \$ 14.3 billion.

Christian P. Vermeulen

# ICNDT Regional Groups: *Activities and perspectives*

## AFRICA

### IAEA CO-ORDINATION MEETING JOHANNESBURG

With the main scope to establish a Mutual Recognition Agreement for African countries, the National Co-ordinating meeting within the AFRA IV Project on NDT (RAF 8/0/25) was held, under the aegis of IAEA, in Johannesburg, Republic of South Africa, 13-17 March 2000. Representatives from Kenya, Mauritius, Morocco, Nigeria, South Africa, Tunisia as well as from IAEA and ICNDT attended the meeting, generously hosted by Rolhoff Ltd at Bergvlei in the surrounds of Johannesburg.

The review of the current status on NDT training and certification schemes, in the African countries, gave evidence of the need of an alignment towards a common goal. To that end, the established Regional Designated Centres should provide multi-national services on the basis of the AFRA agreement.



Representatives of Johannesburg meeting aimed to establish the Africa Federation of NDT.

Based on the international Standard ISO 9712, a draft agreement for the multilateral recognition of NDT personnel qualification and certification schemes in the Africa region has been completed. The establishment of the African Federation for NDT (AFRICA-NDT) was recommended by ICNDT. ICNDT also suggested the founding of more formal National NDT Societies to reinforce the African NDT Community.

A visit to the NDT school of South African Institute of Welding (SAIW) and a presentation of current international activities of ICNDT, including the 15<sup>th</sup> WCNDT-Roma 2000, to SAINT and NDT industry representatives completed the meeting's activities.

## WEST ASIA

### NATIONAL CO-ORDINATION MEETING BEIRUT

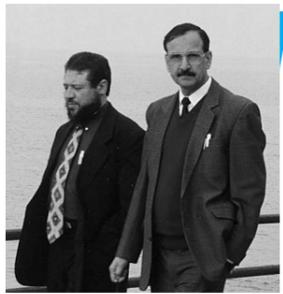


Participants of the IAEA Meeting at the headquarters of IRI in Beirut; West Asia NDT federation has been grounded.

The second National Co-ordinators' meeting within the West Asia Regional Project on NDT (RAW/8/008) was held, under the aegis of IAEA, in Beirut, Lebanon, 3-7 April 2000. The main focus of this project is to establish in each member state a core group of qualified personnel so the activity of training and certification of NDT personnel can be carried out on a sustainable basis. In this light, a number of objectives are being pursued; they include: organisation of training courses, creation of national committees responsible for personnel certification, issuing of a national version of ISO 9712 standard, etc.

Representatives from Iran, Jordan, Kazakstan, Lebanon, Kingdom of Saudi Arabia, Syria, Republic of Yemen as well as Mr A. Khan (IAEA) and Mr Nardoni (ICNDT) attended this meeting.

The attendees realised also the need to establish national NDT Societies to be grouped into a Regional Federation representing the West Asia NDT community. In order to achieve this, ICNDT will give every technical support necessary to IAEA and involved countries.



Mr Khan (r) and Mr Hefne (l) (IAER- Saudi Arabia), during a break of the meeting in Beirut. Mr Hefne has been given the responsibility of forming the West Asia Regional Group.

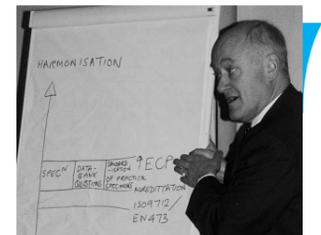
## EFNDT EUROPE Regional group

### EFNDT BOARD OF DIRECTORS MEETING BERLIN, GERMANY, MAY 14, 2000

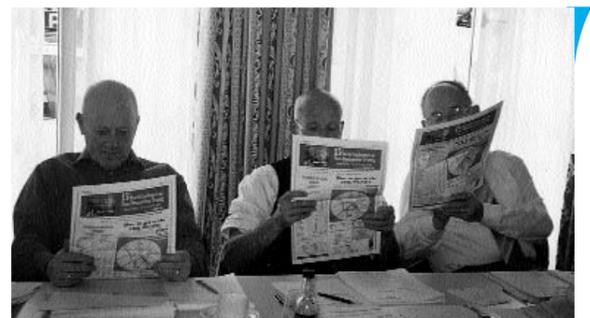
Board of Director Members of the European Federation met in Berlin May 14 last for their bi-annual meeting which was attended by 8 voting plus 2 non voting members. Several relevant topics were discussed; they included: process and procedure for European Certification Programme, proposal for additions to Mutual Recognition Agreement,



Working Group achievements, EFNDT Award, progress of ECNDT 2002 - Barcelona, ECNDT 2006 in Prague, new associated and full members, next election of EFNDT President, Vice-President and Board of Directors at the General assembly which will take place in Rome during the 15<sup>th</sup> WCNDT.



Berlin, May 2000. EFNDT Board of Directors Meeting. ISO 9712 is the common reference point for harmonisation.



Berlin, May 2000. Avid readers of ICNDT Journal

### ICNDT Journal Subscription Form

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Brescia Agency N° 5 - Via Crotte-25127 Brescia, Italy  
Bank Account : **IBSP IT TM 154 c/c 434**

ICNDTc/c AIPND - Via Foresti, 5 - 25127 Brescia, Italy  
Phone +39 030 3739 173, Fax +39 030 3739 176,  
E-mail <aipnd@numerica.it>

## ICNDT Secretariat open Window




S. Gbia                      E. Rochfort

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!

**BENEFACTORS**

The Italian Certification Body for NDT (CICPND) has contributed a sum of

**500 US\$**

to ICNDT Journal for its efforts in strengthening the links within NDT Community

*ICNDT wishes to extend its sincere thanks for this kind contribution.*

**The ICNDT Directory on Internet**

The ICNDT directory, including members and aspiring members, has been up dated and is now available on Internet.

VISIT our Web site : [www.aipnd.it](http://www.aipnd.it)

Thanks to all of those who have responded to the questionnaire circulated by the ICNDT Secretariat. Questionnaires are still available at: [aipnd@numerica.it](mailto:aipnd@numerica.it) or fax +39 030 37 39 176

*Subscriptions help in keeping this Journal alive!*

*"Help to promote the ICNDT Journal"*



*Secretariat*

Mr. Gilbert, INSIGHT

# ICNDT Directory to date

(c) = National Committee

(o) = other organisations

COUNTRY	SOCIETY	ADDRESS	TOWN	ZIP	PHONE	FAX	E-MAIL	PRESIDENT	
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BOLIVIA	Sociedad Boliviana de Ensayos No Destructivos	Cota Cota , Calle 23 - Campus Universitario	La Paz		+591 02 792 622	+591 02 792 622	olk@fiumso.bo	M.O.Villegas	
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KENYA	KNDT - Non-Destructive Testing Society of Kenya	Secretariat Office, Macharios Road, PO Box 11873	Nairobi		254 2 54 1500	254 2 54 01 17	materials@ roadsnet.go.ke	J.K. Chege	
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NETHERLANDS	KINT- Dutch Quality Surveillance and NDT Society	Austinplein 10 - NL 3249 BL	Herkingen	2102 ZM	+31 187 669 460	+31 187 669 003	kint@xs4all.nl	I. Boogard	
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NORWAY	NSNDT- Norwegian Society for NDT	c/o Robit Technology PO Box 100	Billingstad	N-1376	+47 66 98 12 00	+47 66 98 23 33	Dal@Robit.no	S. Hellum	
PAKISTAN	PASNT - Pakistan Society for NDT	c/o National Centre for NDT ( NCNDT ), SES Directorate,	Islamabad	PO Box 1781	+92 51 44 6127	+92 51 44 6126	ncndt@comsats.net.pk	Jamaluddin	
POLAND	Polish Society for NDT and Technical Diagnostic	ul Swietokrzyska 14 A	Warsaw	00-050	+48 22 826 45 55	+48 22 826 03 54			
ROMANIA	ARoEND - Romanian Association for NDT	CP 41- 126	Bucharest		00 401 312 8220	0040 1 312 8220		A Stanciu	
RUSSIA	The Russian Society for NDT and Technical Diagnostic	35 Usacheva Street	Moscow	119048	+70 95 245 5656	+70 95 246 8888	spektr@co.ru	V. Klyuev	
SLOVAK	Slovak Society for Nondestructive Testing	c/o WRI- Racianska 71	Bratislava	83 259	+421 7 4924 6596	+421 7 4445 2145	vuzcop@ba.telecom.sk	P Polak	
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SWEDEN	Swedish Society for NDT	c/o SMS . Vartavagen 67	Stockholm	SE-11583	+46 8 459 5655	+46 8 782 9774	info@fop.a.se	J.E. Bohman	
SWITZERLAND	SGZP	c/o EMPA. Uberlandstrasse 129	Dubendorf	CH-8600	+41 1 823 55 11	+41 1 821 6244	thomasluethi@empa.ch	T. Luthi	
TUNISIA	COTEND- Commission Nationale Pour Les Controles Non-Destructifs	c/o Cetime, Ksar Said, BP 121	Tunis Cedex	1080	216(1)547 809	216 (1) 546 6?7	cetime@ati.tn	M.B.Abdallah	(c)
TURKEY	Chamber of Metallurgical Engineers	Hatay Sokak No 10/9. Kizilay	Ankara	6650	+90 312 425 4160	+90 312 418 9343	metaloda@turnet.tr		(o)
UKRAINE	Ukrainian Society for Nondestructive Testing	11 Bozhenko St,	Kyiv, GPS	252650	+380 44 227 2666	+380 44 220 9482	paton@ukrpack.net	V. Troitskij	
UNITED KINGDOM	British Institute of Non Destructive Testing	1 Spenser Parade	Northampton	NNI 5AA	+44 1604 630 124	+44 1604 231 489	info@bindt.org	P.J. Mudge	
URUGUAY	AENDUR Asociacion Uruguaya de Ensayos No Destructivos	Plaza Independencia 812,	Montevideo	11100	5982 901 2048	5982 902 1681	sinfazon@ancap.com.uy		
USA	ASNT - The American Society of NDT	1711 Arlingate Lane PO Box 28518	Columbus,	43228-0518	+1 614 274 6003	+1 614 274 6899	webmaster@asnt.org	R. Doggart	
VENEZUELA	Asociacion Venezolana de Ensayos No Destructivos	Apartado P. 47533	Caracas	1041	+58 2 6933 970	+58 2 6933 323		J. Blanco	
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YUGOSLAVIA	Yugoslav Centre for Non Destructive Testing	Vojvode Stepe 51	Belgrade	11000	+381 11 460 465	+381 11 469 514		B. Sladojevic	(o)