



IAEA/RCA/NDT

Newsletter

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A quarterly publication on the activities of Non-Destructive Testing taking place in the countries participating in the IAEA/RCA/NDT Project

News from RCA Countries

Australia:

Pest Inspection Certification using thermographic techniques



On the 25th October 2007 we saw the starting of the New AS4635/ISO20807 accreditation and certification pest only. Congratulation to Ron Geluk from North Coast TermiCam who has become the world's first accredited thermographer. Pest only Ron (after applying for it through AINDT) on the 30/11/07 received his Certificate on the 4/12/07. Ron had to go through some pretty heavy approval processes with AINDT. He had to make sure that his reports where up to standard and his job profile was well presented to the board of AINDT. We expect all of our franchisees who have done the Level-1 thermographers course over the years to apply for his certification. By now you all should have the application forms. If you do not please email us and we will re send them to you. With this Accreditation in place it will help the pest industry with regards to the type of camera a pest controller should use and the way in which he or she does the reports. The license issued to Ron is as follows.



The License issued for two years and has to be renewed on the 4/12/09. ThrmiCam would like to thank all of the franchisees for their help over the past 3 years to get this process in place with remarks and input to the draft.

Bangladesh:

BSNDT-OLYMPUS Workshop on ADVANCED NDT held at Dhaka



The workshop was held on 11-12 January 2008 on the occasion of 13th Annual Convention of Bangladesh Society for Non- Destructive Testing (BSNDT) at Dr. Anwar Hossain Auditorium of Bangladesh Atomic Energy Commission, Dhaka. The Workshop was jointly organized by BSNDT, OLYMPUS and its local counterpart Saj Engineering & Trading Company.

About 110 delegates from 45 organizations attended the workshop. Dr. Md. Nurul Amin, Secretary, Ministry of Industries, Government of People's Republic of Bangladesh was present as Chief Guest and Dr. Shafiqul Islam Bhuyian, Chairman, Bangladesh Atomic Energy Commission was present as Special Guest in the inaugural session of the Workshop. Following papers were presented by distinguished resource persons in the Workshop

Topics	Speaker
NDT Training & Certification Activity in Bangladesh	Engr. Jafar Sadique Head, NDT Division, Atomic Energy Center, Dhaka
General introduction of Olympus NDT	Mr. Carl Mercier, Olympus NDT, Canada
Remote Visual Inspection (RVI)	Mr. Jay Hing Olympus Singapore Pte Ltd
Presentation and Demonstration on Corrosion Thickness Gage	Mr. Ken Low Olympus NDT, Canada
Digital Radiography and its Application in	Mr. Md.Faruque Hossain Chowdhury

Industry	Principal Scientific Officer, NDT Division, Atomic Energy Centre, Dhaka
Ultrasonic Phased Array Technique	Mr. Carl Mercier, Olympus NDT, Canada
Presentation and Demonstration on Eddy Current Detector	Mr. Ken Low, Olympus NDT, Canada

45th National Training Course on NDT held at AEC, Dhaka



A NTC on Magnetic Particle Testing Level-2 was held at Atomic Energy Centre, Dhaka from 03-20 February 2008.

12 participants from different organizations like Bangladesh Army, Bangladesh Air Force, Bangladesh Power Development Board, Bangladesh Inland Water Transport Authority, Karnaphuli Fertilizer Company Ltd., Pashchimanchal Gas Company Ltd., Saj Engineering & Trading Company and Atomic Energy Centre, Dhaka attended the Course. The course was organized in collaboration with NDT Academic Committee in accordance with ISO 9712:2005 Dr. Shafiqul Islam Bhuyian, Chairman, Bangladesh Atomic Energy Commission as Chief Guest of the Certificate Award Ceremony distributed the Certificate among the successful participants on 20 February 2008. Session was presided over by Engr. Md. Rezaul Bazi, Director, AEC.

India:

Direct Digital Radiography and Volume Computed Tomography Imaging facility for NDT and research applications at BARC, India

An imaging laboratory for fast emerging radiation based NDT technique involving film-less direct digital radiography and 3D computed tomography has been

recently setup by Isotope Applications Division of Bhabha Atomic Research Centre, Mumbai, India. The facility makes use of an amorphous silicon based 2D planar detector, constant potential X-ray equipment; a CNC based 6-axis mechanical manipulator and associated software and other sub-systems. The facility has been designed preliminary for research applications in advanced NDT imaging, training and technology familiarization programmes. The system can be used for acquiring and analyzing digital radiographs and direct 3D tomographs for certain nonmedical and industrial specimen. The computing environment has a variety of specialized software for high-end analysis and interpretation of processed data. At present, the system is being optimized for various operating parameters and efficient performance. The system will also be used for serving academic interests in advanced radiation based digital imaging.



Fig. 1 Control room area of the X-ray based Digital Radiography and Computed Tomography Imaging system



Fig. 2 Scanning system showing mechanical manipulator, X-ray tube-head and detector

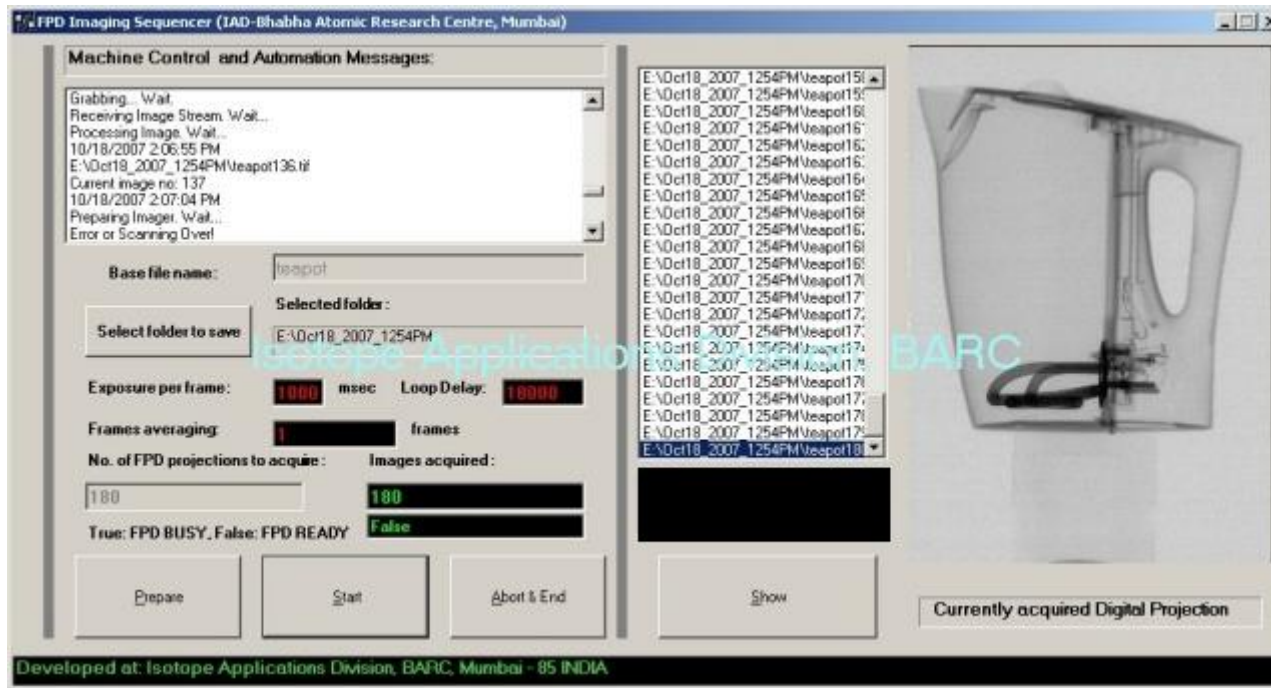


Fig. 3 Software front-end for machine control and projection data acquisition system for 3D Tomography

Indonesia:

MOU between IANDT and Institute of Soudre (France)

On January 29, 2008, Indonesian Association of NDT have sign up Memorandum of Understanding with Institute of Soudre (France) in setting up National Body for NDT Certification of Personnel especially in Man Power Development and providing test pieces for examination and training as well.



Korea Republic:

ENDE 2008 Workshop will be held in Seoul

The 13th International Workshop on Electromagnetic Nondestructive Evaluation will be held on June 10~12, 2008 in Seoul Education and Culture Center, Seoul Korea. Approximately 100~200 researchers, engineers and professors will participate and discuss current issues on electromagnetic NDE. Previous meeting was held at Cardiff University, Cardiff, UK on June 19~21, 2007. For more information visit a website: <http://www.ende2008.org> or contact to e-mail: ende2008@gmail.com.

The New President and Board Members of KSNT

Prof. Oh Yang Kwon from Inha Univ. was elected as the 14th President of KSNT (Korea Society for Nondestructive Testing) for a term of 2 years from 2008. The Vice Presidents of KSNT were elected as:

Dr. Seung Seok Lee (KRISS), Mr. Young Lee (Korea EC&U), and Prof. Jun Hyun Lee (Pusan Univ.).

Other Board Members were also elected as:

Dr. Seok Chull Kang (KINS), Prof. Kyung Suk Kim (Chosun Univ.), Noh You Kim (Korea Tech. Education Univ.), Prof. Ik Keun Park (Seoul Industrial Univ.), Mr. Jae Kyu Baek (Korea Industrial Eng.), Prof. Sung Jin Song (Sungkyunkwan Univ.), Dr. Dong Jin Yoon (KRISS), Mr. Eu Jong Lee (KNDT&I), Dr. Jong Po Lee

(ANSCO), Prof. Hyun Joon Lim (Hongik Univ.), Prof. Kyung Young Jhang (Hanyang Univ.), Dr. Young Kwun Jang (KIIT), Mr. Dae Hyuk Jung (Nowgiyun), Dr. Yong Moo Cheong (KAERI), Dr. Man Yong Choi (KRISS), Mr. Woo Geun Song (MOST) Auditors: Dr. Kyung Sik Cho (KIMM), and Mr. Ki Soo Han (Dongyang Inspection)



The 14th President and Board Members of KSNT

Malaysia:

Malaysian NCB is preparing for Accreditation in Accordance with ISO 17024

Malaysian NCB for NDT is targeting 2010 as a year for it to be accredited to ISO 17024. A formal request from the Director of Certification, Department of Skill Development, that act as the National Certifying Body (NCB) for NDT personnel, for accreditation was forwarded to the Department of Standard in January 2008. This request has prompted a good discussion on the subject matter hosted by the Department of Standard, the accreditation authority in Malaysia in early February 2008. The discussion was attended by individuals representing the Department of Standard itself, the Department of Skill

Development, The Atomic Energy Licensing Board, the Malaysian Society for NDT and Nuclear Malaysia. The move by the NCB was welcomed by all meeting participants and a suggestion was made that a special training course on ISO 17024 should be organized for those involved in NDT certification process. Following this suggestion, a two days training course on ISO 17024 was organized by the DSD on 19th to 20th February 2008. The purpose of this course is to expose individuals who are currently involved in the certification process to ISO 17024 quality management system with the hope that everyone must be prepared to live in the ISO 17024 environment when the time comes.



Photographs of representatives from Department of Skill Development, Atomic Energy Licensing Board Nuclear Malaysia and Malaysian Society for NDT taken shortly after the meeting.



Some of participants attending awareness training course on ISO 17024

Mongolia:

NDT Centre of Mongolian University of Science and Technology is introducing the new NDT method called Metal Magnetic Memory (MMM) method. MONTORH LLC of Mongolia is taking the course to establish inspection service for life assessment of metal components and structures in service. As inspection equipment they selected of China made EMS-2000, an intelligent metal magnetic memory diagnostic instrument. In comparison with the traditional NDT its importance is that it is not necessary to process the surface of the component being tested and to magnetize and demagnetize the component being tested. The metal magnetic characteristics revealed by this instrument can be expressed as strength of time life of mechanical components. Following standards are used as inspection standards:

- ISO 24497-1: 2007 Non-destructive testing ? Metal magnetic memory - Part 1: Vocabulary
- ISO 24497-2: 2007 Non-destructive testing ? Metal magnetic memory - Part 2: General requirements
- ISO 24497-3: 2007 Non-destructive testing ? Metal magnetic memory - Part 3: Inspection of welded joints

The Mongolian NDT specialists, who are received knowledge and experience through the IAEA/RCA project on NDT are working in cooperation with private company to establish of this new NDT service in Mongolia.

Philippines:

The 22nd Annual Convention and General Membership Meeting of the Society held at the Island Cove, Kawit, Cavite on November 16, 2007. The pictures shown below: Eng'r. Peter Renzel, Quality Manager of Krautkramer, who presented Phased Array-New Ways in Manual UT and Dr. Dirk Clinkemaele, Technical Support Manager of AGFA/GE Inspection Technologies who presented Advances in CR Radiography.



Forthcoming RCA Regional Event in 2008

Date	Project Number	Title	Host Country	Comments
24-28 Mar 2008	RAS/8/105	Mid-term Progress Review Meeting	Vietnam	Suggested Host Country
21-25 Apr 2008	RAS/8/105	RTC on Quality Management System (QMS) and Strategic planning.	Thailand	Indonesia proposed to host
3-7 Nov 2008	RAS/8/105	RTC on portable Digital Industrial Radiography and Tomography systems.	MAL	Suggested Host Country

