



HUNGARIAN ASSOCIATION FOR NON-DESTRUCTIVE TESTING

co-sponsored by



EUROPEAN FEDERATION FOR NON-DESTRUCTIVE TESTING

is organising

THE 2ND INTERNATIONAL CONFERENCE ON DIAGNOSTICS OF STRUCTURES AND COMPONENTS USING METAL MAGNETIC MEMORY METHOD

5th Circular

April 24 - 25, 2018
Budapest, Hungary

The Conference is supported by:



ENERGODIAGNOSTIKA CO LTD.



RUSSIAN WELDING SOCIETY





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Co-Chairman of Conference Organizing Committee

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CONFERENCE TOPICS

- Physical bases of the **Metal Magnetic Memory (MMM)** method. Experimental research of the physical-mechanical properties of metals using the **MMM** method
- New theories in the magnetization of metals
- Magneto-elastic effects and domain structures
- Development of the **MMM** method in Europe, Russia and other countries
- Non-contact diagnostics of buried pipelines based on the **MMM** method
- Stress-strained states properties of metals with special regard to welded joints
- Inspection of machine-building products quality by structural inhomogeneity and residual stresses
- Experience in the use of the **MMM** method at inspection and lifetime assessment of pipelines, structures and components
- Metal limiting state criteria at assessment of residual lifetime. Stress-strain state tests of structures and components
- Using the **MMM** method in the **Fitness for Services Procedures** and in the **Asset Management System**
- Personnel training on the **MMM** method and training in the field of stress-strain state testing and engineering diagnostics

The official language of the Conference is: English

INTENDED AUDIENCE

- **Managers for quality and integrity, maintenance and inspection, and NDT personnel of manufacturing and operation** in oil, gas, off-shore and chemical industry, thermal and nuclear power stations, steel constructions and bridges, structures of transportation as well as metallurgical industries
- **Research engineers and experts of Universities and Research Institutes**
- **Staff of NDT training institutions**
- **Responsible people of national authorities** and supervisor agencies
- **Engineers and technicians** of NDT equipment manufacturers and distributors



SCHEDULE FOR ABSTRACTS AND PAPERS SUBMISSIONS

The full text of presentation for the Proceeding as well as the presentation for projecting should be handed over at the **beginning of the Conference or earlier**.

PRELIMINARY PROGRAM

24.04.2018 Tuesday		
	9:30 – 9:50	<i>Opening</i>
Plenary session R. Stanly	9:50 – 10:50 Russian/English	A. A. DUBOV, S. M. KOLOKOLNIKOV: Totals of a new direction in the technical diagnostics based on the MMM method. Physical bases and practical possibilities of the MMM method
	10:50- 11:30	G. DOBMANN: Some critical remarks to terminology and experimental applications – applying the MMM-effect – a view on actual research
		Coffee
	11:50 – 12:20	P. TRAMPUS, P. LADÁNYI: Non-destructive methods for early warning of structural failures
	12:20- 12:50	I. MÉSZÁROS: An overview of magnetic material testing methods
	12:50 -	Discussion of plenary presentations
		Lunch
Theory G. Dobmann	14:30 – 15:00	R. STANLEY: Observations of a reviewer on articles on the MMM Method
	15:00 – 15:30	A. A. DUBOV, S.M. KOLOKOLNIKOV: Metrological assurance of the MMM method
	15:30 – 16:00	V. SVOBODA, E. SVOBODOVA: Application of MMM method during fatigue damage of atypical metal specimens
		Coffee
General apply P. Ladányi	16:30 – 17:00	M. B. C. KAMARUDIN: Application of the MMM method in Malaysia and other countries of Indo-Chinese region
	17:00 – 17:30	K. DANDE: The Hungarian application of MMM in the territory of chemical-, oil-, and energy industry
	18:50 – 21:00	Banquet



25.04.2018 Wednesday

Buried pipelines M.B.C Kamarudin	9:00 – 9:30	A. A. DUBOV, S. M. KOLOKOLNIKOV: Non-contact magnetometric inspection of buried pipelines: methodology and prospects of development
	9:30 – 10:00	J. LUBOWIECKI: Diagnostics of underground pipelines using the NCMD
	10:00 - -10:30	V. SVOBODA, E. SVOBODOVÁ; F. ŽEMLIČKA: Application of MMM method on buried pipeline DN 1000
	10:30 - -11:00	N. C. ORTIZ, M. SÁNCHEZ, E. GOROKHOV: A comparative study of unpiggable pipeline inspection techniques
Coffee		
Others E. Ssvobodova	11:30 – 12:00	A. CANOVA: Innovative magnetic flux leakage applications in non destructive testing of metallic ropes
	12:00 – 12:30	A. A. DUBOV, S.M. KOLOKOLNIKOV: Training and certification of personnel at the Energodiagnostika Co. Ltd. certification centre (Moscow).
	12:30 – 12:50	<i>Conference closing</i>
Lunch		
	14:30 – 16:30	ICNDT MMM Specialist International Group meeting*

* Basic information about this new Specialist International Group can be read further information on website of ICNDT. (<http://www.icndt.org/ICNDT-Activities/Specialist-International-Groups>). Every specialist who is interested in the activities of Specialist International Group is welcome

REGISTRATION

The registration is available through the MAROVISZ web-site Please use the following link: www.marovisz.hu/2nd MMM Conference registration, or www.marovisz.hu and push the registration button. Finishing the registration the system will inform you about it and in several days, you will get an e-mail about the successful of registration together with the Invoice. The Registration fee includes the cost of the Conference Proceedings, lunches and banquet, coffee breaks, organization expenses. It should be paid by bank transfer to the bank account of MAROVISZ: IBAN: **HU 72 10200830-32323070-00000000** (Bank: **K&H** Swift code OKH B HU HB).

Regisztrációs díj	2018.01.20 után
Magyar résztvevők	99 000 Ft+ ÁFA
Marovisz tagok	85 000 Ft+ ÁFA
Napi jegy (bankett nélkül)	35 000 Ft+ ÁFA

CONFERENCE VENUE

The conference will be organised in the

DANUBIUS HOTEL HELIA

(62-64, Kárpát Str., 1133 Budapest, Hungary)
located on the bank of the Danube.



Accommodation should be booked directly in the Hotel using the following link, which ensures a special room price: [MMM Hotel booking](#)

The dead line of the hotel room booking is 27th of March, because the April is the main spring tourist season in Hungary and the hotels are practically full.

ACCOMPANYING PERSON

For the accompanying person the banquet is 60 € including the VAT. Please at the registration; make a remark if your partner wishes to take part on the banquet.

Another ladies program can be organised at the Hotel Reception.



The Conference Hall

The Hotel

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