



INTERNATIONAL INSTITUTE OF WELDING

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Doc. No: V-1980-23

**76nd IIW Annual Assembly - COMMISSION V
NDT and Quality Assurance of Welded Products**

**Agenda of the Technical Meetings of Commission V,
NDT and Quality Assurance of Welded Products**

SINGAPORE-ANNUAL ASSEMBLY, July 17th – July 19th , 2023

Monday July 17th , 2023: 8:30 – 12:30 (local time Singapore)

8:30 – 8:50 Opening of the Meeting, *Marc Kreutzbruck*

Adaption of the Agenda, Marc Kreutzbruck

V-19xx-23 Annual Report of Commission V,
Marc Kreutzbruck (20 min)

Optical and active Thermography Techniques

8:50 – 9:30

V-19xx-23 Non-destructive Evaluation of Residual Stress using Shearography
and high Density Current Impulses,
*Leonid Lobanov, Viktor Savitsky, Oleksii Shutkevych,
Iryna Kyianets, Kostiantyn Shyian*, PWI, Ukraine (20 min)

V-19xx-23 Improved spatial resolution using IR-Beamer excitation
in active Thermography,
Marc Kreutzbruck, IKT, Stuttgart (20 min)

Sub-commission VC Ultrasonic Based Weld Inspection Techniques, *Channa Nageswaran*

9:30 – 10:40

V-19xx-23 Annual Report of Sub-commission VC,
Channa Nageswaran, (20 min)

V-19xx-23 Evaluation of PCI technique for CRA inspection applications,
Daly Souissi, Evident Scientific (20 min)

V-19xx-23 *NN*, UT NDT at Shell Singapore, Shell, not confirmed yet (20 min)

Coffee Break

10:30 – 10:50

Special Session Artificial Intelligence

10:50 – 12:05

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| V-19xx-23 | AI for tube testing with ECT,
<i>Casper Wassink, Eddyfi</i> | (25 min) |
| V-19xx-23 | Improvement of 3D-Active Thermography by using
Artificial Intelligence,
<i>Marc Kreutzbruck, IKT Stuttgart</i> | (25 min) |
| V-19xx-23 | xxx,
<i>Pierre Calmon, CEA Paris</i> | (25 min) |

Tuesday July 18th , 2023: 8:30 – 12:30 (local time Singapore)

**Sub-commission VF / VD **NDT reliability including Simulation of NDT Techniques /
8:30 – 9:10 Structural health monitoring, *Pierre Calmon*****

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| V-19xx-23 | Annual Report of Sub-commission VF and VD,
<i>Pierre Calmon</i> | (20 min) |
| V-19xx-23 | <i>NN, CEA, Paris</i> | (20 min) |

**Sub-commission VE **Weld Inspection techniques based on Electrical and Magnetic
methods, *Casper Wassink*****

9:10 – 10:00

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| V-19xx-23 | Annual Report of Sub-commission VE, <i>Casper Wassink</i>
Update on Eddy Current Array standards development | (30 min) |
| V-19xx-23 | Comprehensive diagnostics of welded joints on pipelines
in polyurethane foam insulation.
<i>Anatoly Dubov, Alexandr Dubov, Sergey Kolokolnikov, Artem Marchenkov</i> | (20 min) |

Coffee Break

10:00 – 10:20

Visit of the Secretariat

10:20 -10:40

Special Session Robotic NDT

10:40 – 11:55

V-19xx-23	xxx, <i>Pierre Calmon</i> , CEA, Paris	(25 min)
V-19xx-23	Robotic inspection of underground fuel tanks, <i>Casper Wassink</i> , Eddyfi, Canada	(25 min)
V-19xx-23	A Freely Positionable Dual-RobotSystem for Automated NDT of Large Structures, <i>Marc Kreutzbruck</i> , IKT, Stuttgart	(25 min)

Wednesday July 19th , 2023: 8:30 – 12:30 (local time Singapore)

Sub-commission VA Radiographic Based Weld Inspection Techniques, *Uwe Zscherpel*

8:30 – 9:30

V-19xx-23	Annual Report of Sub-commission VA, <i>Uwe Zscherpel</i>	(20 min)
V-19xx-23	<i>NN</i>	(20 min)
	Open discussion	(20 min)

Conclusion of the Meeting