



The project EWALD and INNMEDSCAN have received funding from the European Union's Horizon Europe HORIZON-MSCA-SE-2021 under the Grant Agreements No.101086250 and 101086178, respectively. The sole responsibility for the content of this deliverable lies with the authors. It does not necessarily reflect the opinion of the European Union. Neither the REA nor the European Commission are responsible for any use that may be made of the information contained therein.



Research and Innovation Staff Exchange (Marie Skłodowska-Curie Actions Staff Exchange)

HORIZON-MSCA-SE-2021

"EWALD 101086250"

"INNMEDSCAN 101086178"



ODAE 2026 Conference, 31st August – 2nd September

Zafiro Palace Alcudia

C/Mar i Estany, 35 07400 Puerto de Alcudia

Illes Balears – Mallorca

GMT+02:00 (CEST Time)

ONLINE - TEAMS

Link: [Click here to join](#)

Meeting ID: 387 560 151 979 208

Access code: Hn7vj3Vn



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Monday, August 31st

GMT+02:00 (CEST Time) 9:00 - 17:15: ODAE Conference

09:00 - 09:10 – **Welcome and Opening Remarks**

Prof. Svitlana Lyubchyk and Prof. Sergiy Lyubchyk

MORNING SESSION

09:10 - 09:30 – Talk 1: **CASRE best practices and promising research**

Prof. Miykhailo Popov (Scientific Centre for Aerospace Research of the Earth of the Institute of Geological Science, Ukraine) – EWALD

09:30 - 09:50 – Talk 2: **The land degradation early warning system: principles, dataflow and validation**

Prof. Sergey Stankevich (Scientific Centre for Aerospace Research of the Earth of the Institute of Geological Science, Ukraine) – EWALD

09:50 - 10:10 – Talk 3: **The used and perspective tools for EWALD's prototype development**

Prof. Elena Zaitseva and Dr. Vitaly Levashenko (Zilinska Univerzita v Ziline Univerzita, Slovakia) – EWALD

10:10 - 10:30 – Talk 4: **Cloud solutions for handling the Earth observation datacube**

Prof. Sergei Salata (Quantag IT Solutions GmbH, Germany) – EWALD

10:30 – 10:45 – Coffee Break

10:45 - 11:05 – Talk 5 (online): **Beyond NDVI: A Hybrid Productivity Approach to Land Degradation Monitoring in Morocco**

Nikhil Raghuvanshi, MSc. (University of Hamburg, Germany) – EWALD

11:05 - 11:25 – Talk 6 (online): **Effect of defect structure of YAG lattice on luminescent properties of $Y_3Al_5O_{12}:Ce$ nanoparticles prepared by co-precipitation synthesis**

Dr. Igor Danilenko (Nanomaterials Research & Development SP. Z.O.O, Poland) – DETMED

11:25 - 11:45 – Talk 7: **Physicochemical. Analysis of the soil in the Skoura Oasis (UCAM, Morocco)**

Prof. Daoud Mezzane (Université Cadi Ayyad, Morocco) – EWALD



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11:45 - 12:05 – Talk 8: *The degradation of the oases in the Ouarzazate province: diagnosis, problems, and solutions*

Prof. Hassan Ibouh, Prof. Bouchra Sadiq, Prof. Abderahmane Edoudi, Prof. Lhou Eddahby, Prof. Daoud Mezzane (Université Cadi Ayyad and Ressources Ingénierie, Morocco) – EWALD

12:05 - 12:25 – Talk 9 (online): *YAG:Ce and Coordination Compounds of Tb(III) and Nd(III) as Scintillation Materials: Synthesis and Luminescence Properties*

Dr. Oleksandra Berezhnytska (V.I. Vernadsky Institute of General and Inorganic Chemistry of the National Academy of Sciences of Ukraine, Ukraine) – DETMED

12:30 - 14:00 – Lunch Break

PARALLEL SESSIONS / ROUND TABLES – AUGUST 31st

10:45 - 12:30 – Round Table: DETMED (Parallel Session with project consortium)

Teams Link for online participation: [Click here](#)

Meeting ID: 379 176 631 667 967

Access code: FD2Up3FD

AFTERNOON SESSION

14:00 - 14:20 – Talk 10: *Advanced Detector Technologies for Modern Nuclear Medicine*

Prof. Azer Sadigov (National Nuclear Research Center, Azerbaijan) – INNMEDSCAN

14:20 - 14:40 – Talk 11: *Improvement and Development of the GaN-HEMT-Based Sensor for Tomographic Scanner Applications*

Prof. Ercan Yilmaz (Bolu Abant İzzet Baysal University, Turkey) – INNMEDSCAN

14:40 - 15:00 – Talk 12: *A new detector concept to improve the TOF parameter in hybrid PET-MRI scanners*

Prof. Ziraddin Sadigov (Institute of Radiation Problems, Azerbaijan) – INNMEDSCAN

15:00 - 15:20 – Talk 13: (online) *Precise time measurement in single photon detection experiments*

Prof. Michel Holik (Czech Technical University of Prague, Czech Republic) – INNMEDSCAN

15:20 - 15:35 – Coffee Break



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15:35 - 15:55 – Talk 14 (online): *Radiation Hardness Assurance (RHA) Testing of Electronic Subsystems via Co-60*

Prof. Ondrej Urban (University of West Bohemia in Pilsen, Czech Republic) – INNMEDSCAN

15:55 - 16:15 – Talk 15: *Design, Development and Comprehensive Characterization of Silicon-based Materials for Advanced Sensing Applications*

Dr. Neeraj Kumar (DeepTechLab, Lusofona University, Portugal) – HSAFE

16:15 - 16:35 – Talk 16: *Surface Phenomena and Interfacial Processes in Zirconia Nanostructured Systems: Implications for Advanced Detector Technologies*

Prof. Artem Shylo (Nanomaterials Research & Development SP. Z.O.O, Poland) – INNMEDSCAN

16:35 - 16:55 – Talk 17: *Solid-State Ceramic-Based Devices in Autonomous Sensing: Mechanisms of Humidity-Driven Signal Generation*

Prof. Andriy Lyubchuk (Cascatachuva Ltd, Portugal) – INNMEDSCAN

16:55 - 17:15 – Talk 18: (online) *Avalanche Field-Effect Transistor-Based Biosensor for Ultrasensitive Detection of Cancer Biomarkers*

Prof. Aysegül Kahmaran (Bursa Uludağ University, Turkey) – HSAFE

PARALLEL SESSIONS / ROUND TABLES – AUGUST 31st

15:35 - 17:15 – *Round Table: E-NOSE (Parallel Session with project consortium)*

Teams Link for online participation: [Click here](#)

Meeting ID: 339 388 256 293 715

Access code: hW3Xa62J

19:30 - 22:00 – Conference Dinner



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Tuesday, September 1st

09:00 - 09:10 – Welcome and Opening Remarks

Prof. Svitlana Lyubchyk and Prof. Sergiy Lyubchyk

MORNING SESSION

09:10 - 09:30 – Talk 1: **The land degradation early warning system: capacity building**

Prof. Iryna Piestova (Scientific Centre for Aerospace Research of the Earth of the Institute of Geological Science, Ukraine) – EWALD

09:30 - 09:50 – Talk 2: **The land degradation early warning system: responses and mitigation**

Prof. Anna Kozlova (Scientific Centre for Aerospace Research of the Earth of the Institute of Geological Science, Ukraine) – EWALD

09:50 - 10:10 – Talk 3: **The land degradation early warning system: prototype demonstration**

Dr. Dmytro Vdoviko (Limited Liability Company ECOMM CO, Ukraine) – EWALD

10:10 - 10:30 – Talk 4: **SiPM Design and Performance**

Dr. Orkhan Rasulov (Elmék Mozgásban Alapítvány, Hungary) – DETMED

10:30 - 10:45 – Coffee Break

10:45 - 11:05 – Talk 5: **Applications of Silicon Photomultipliers in Science and Technology**

Dr. Nigar Sadigova (SETM Limited Liability Company, Azerbaijan) – DETMED

11:05 - 11:25 – Talk 6: **Mechanism of the atypical photoluminescence behavior in the mesoscale range YAG:Ce**

Prof. Yuri Bacherikov (V.I. Vernadsky Institute of General and Inorganic Chemistry of the National Academy of Sciences of Ukraine, Ukraine) – DETMED

11:25 - 11:45 – Talk 7 (online): **Nanopowder Materials and Accelerator-Based Methods for Their Modification for Advanced Electronics and Energy Engineering Technologies**

Dr. Oleksandr Doroshkevich (Materials Science Institute Solar Physics Research & Development Association, Uzbekistan) – E-NOSE



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11:45 - 12:05 – Talk 8: (online) ***Luminescence Properties of YAG:Ce under High-Intensity Excitation***

Dr. Valerii Kidalov (Technische Universität Dortmund, Germany) – DETMED

12:05 - 14:00 – Lunch Break

PARALLEL SESSIONS / ROUND TABLES – SEPTEMBER 1st

10:45 - 12:05 – ***Round Table: HSAFE (Parallel Session with project consortium)***

Teams Link for online participation: [Click here](#)

Meeting ID: 334 095 797 300 927

Access code: C3gm9QW7

AFTERNOON SESSION

14:00 - 14:20 – Talk 9: ***Optimization of the technology for producing hierarchically structured nanopowders of complex oxide systems***

Dr. Iryna Vinnychenko (NANOTECHCENTER LLC, Ukraine) – E-NOSE

14:20 - 14:40 – Talk 10: ***Investigation of the Radiation Hardness of MAPD***

Prof. Farid Ahmadov (Radiasiya Prolemleri Institutu Azərbaycan Milli Elmlər Akademiyası, Azerbaijan) – DETMED

14:40 - 15:00 – Talk 11: ***E-NOSE: Implementation Progress and Secondment Statistics***

Prof. Tamara Erceg (NOVI SAD University, Serbia) – E-NOSE

15:00 - 15:20 – Talk 12: ***The Technology for Obtaining Hierarchically Structured Nanopowders of Iron Oxide***

Dr. Dmytro Vinnychenko (NANOTECHCENTER LLC, Ukraine) – E-NOSE

15:20 - 15:35 – Coffee Break

15:35 - 15:55 – Talk 13: ***Seismic risk in the Ouarzazate province***

Prof. Bouchra Sadiq, Prof. Hassan Ibouh, Prof. Seieddine Cherif, Prof. Abderrahmane Edoudi and Prof. Daoud Mezzane (Université Cadi Ayyad and Ressources Ingenierie, Morocco) – EWALD

15:55 - 16:15 – Talk 14: ***Oxide Gas Sensors for Biomedical Applications: Surface Engineering for Operation Under High Humidity***

Dr. Oksana Gorban (Nanomaterials Research & Development SP. Z.O.O, Poland) – E-NOSE



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16:15 - 16:35 – Talk 15: ***E-NOSE: A Technology in Evolution***

Dr. Pietro Capaldo (Nanophoenix SRL, Italy) – E-NOSE

16:35 - 16:55 – Talk 16 (online): ***The possible relationship of human exhalation's markers with the parameters of the electro-chemical impedance***

Dr. Zhanna Mezentsseva (Materials Science Institute Solar Physics Research & Development Association, Uzbekistan) – E-NOSE

16:55 - 17:30 – Closing Remarks

19:30 - 22:00 – Conference Dinner