

International Conference on AI & Digital Modelling in Energy (AIDME-2026)

Program Outline

Official Website: <https://nla.nu.edu.kz/aidme2026>

Program Schedule and Session Highlights

Time	Activity
Day 1: Wednesday, 5 August 2026	
08:00 - 09:00	Registration
09:00 - 10:00	Opening Ceremony (jointly with INESS) RED HALL: NU Heads + Galymzhan Issabekov (QIST)
10:10 - 10:20	Group Photo
10:20 - 11:00	Coffee Break and Networking
11:00 - 12:00	3-4 Talks (Yanwei Wang, Madina Tungatarova (Aidarkhan Kaltayev), Dinara Turalina), Block 3,3e224
12:00 - 13:00	Keynote Lecture 1 (Sagyn Omirbekov), Block 3,3e224
13:00 - 14:00	Lunch Break
14:00 - 15:00	Special Event: Official Establishment and Launch of the InterPore Kazakhstan Chapter (Senate Hall)
14:00 - 15:00	Keynote Lecture 2: Prof. Ann Muggeridge
15:00 - 15:30	Coffee Break
15:30 - 16:30	Keynote Lecture 3: Stefan Colombano
16:30 - 17:30	Keynote Lecture 4: Thomas Oppeneau

17:30 - 18:30	Invited Lectures (2): Related to Porous Media (Prof. Yerlan Amanbek and Assylkhan Bibosinov (INMASH))
Day 2: Thursday, 6 August 2026, Block 3, 3e224	
08:30 - 09:30	Keynote Lecture 5: Taskyn Abitkazy (CNPC)
09:30 - 10:30	Invited Lectures (2): Gaini Serik (KMGE); Anas Mohammed Hassan (HW-Aktobe) Gaini: Kazakhstan Hydrogen Tool: A GIS-Based Decision-Support Platform for Evaluating National Hydrogen Pathways
10:30 - 11:00	Coffee Break
11:00 - 12:00	Keynote Lecture 6: Nurlybek Mursaliyev (Biodock)
12:00 - 13:00	Invited Lectures (2): Daniar Aizhulov (Satbayev University), Alibek Kuljabekov
13:00 - 14:00	Lunch Break (University Club Lounge)
14:00 - 15:00	Keynote Lecture 7: Donovan Chaffart: Reliable AI for Safety-Critical and Data-Limited Energy Applications: From Fluidization to Catalyst Discovery
15:00 - 16:00	Invited Lectures (2): Bakbergen Bekbau (ENU), Yerzhan Belyayev (Satbayev University)
16:00 - 16:30	Coffee Break
16:30 - 17:30	Keynote Lecture 8: Yue Yuan: Fluidization Meets Trustworthy AI: Powering Energy Processes in the Age of Data
17:30 - 18:30	Invited Lectures (2): Nariman Algazinov + Darezhat Bolysbek
19:00 - 22:00	Conference Banquet Dinner (University Club Lounge)
Day 3: Friday, 7 August 2026, Block 3, 3e224	
08:30 - 09:30	Keynote Lecture 9: Weihua Li: Self-consistent field theory study on the self-assembly of block copolymers

09:30 - 10:30	Invited Lectures (2): Dhawal Shah + Bauyrzhan Myrzakhmetov
10:30 - 11:00	Poster Session + Coffee Break
11:00 - 12:00	Keynote Lecture 10: Jiajia Zhou: Wetting dynamics in cornered capillary tubes
12:00 - 13:00	Keynote Lecture 11: Xian Kong: Molecular Simulation Studies of Transport Mechanisms in Polymer Electrolytes
13:00 - 14:00	Lunch Break (University Club Lounge)
	Special Event: 2nd China–Kazakhstan Symposium on Carbon Capture, Utilisation and Storage and Oil & Gas Innovation Technologies
14:00 - 15:00	Keynote Lecture 12: Zhongqi Lu: Reinforcement Learning Based Modeling for the Injection-Production Streamline Optimization of the Layered Reservoirs
15:00 - 16:00	Invited Lectures (2): Yangyang Sun + Perizat Omarova or Diana Baidollinova)
16:00 - 16:30	Poster Session + Coffee Break
16:30 - 17:30	Keynote Lecture 13: Longlong Li: Advances in High-Performance Parallel Reservoir Simulation: Novel Discretization Schemes and Multi-Physics Applications
17:30 - 18:30	Invited Lectures (2): Aibike Nagyz + Ehsan Hajibolouri
18:30 - 19:00	Awarding Ceremony
Day 4: Saturday, 8 August 2026	
08:30 - 09:30	Keynote Lecture 14: Zhenghao Wu: AI-Driven Polymer Research: From Structure–Property Prediction to Multiscale Molecular Simulation
09:30 - 10:30	Keynote Lecture 15: Prof. Popov Anatoli
10:30 - 11:00	Coffee Break
11:00 - 12:00	Keynote Lecture 16: Dr. Marina Konuhova
12:00 - 13:00	Invited Lectures (2): Kairolla Sekerbayev + Yerzhan Ashim
13:00 - 14:00	Lunch Break

14:00 - 17:00	Technical visit, academic networking, optional cultural programme, Closing and departure arrangements

16 invited talks (16 keynote)

12 external

4 internal

Event start date and time: 5 August 2026, 09:00

Event end date and time: 8 August 2026, 17:00

Conference Venues:

Nazarbayev University, Astana, Kazakhstan

Preliminary Venue Map:

- **Joint Opening Ceremony (Aug 5, AM): Red Hall, Block C3**
- **InterPore Launch (Aug 5, PM): Senate Hall, Block 1**
- **Technical Sessions (Aug 6–8): Room 3e224, Block 3**
- **Poster Sessions: 2nd Floor, Block 3**

Registration Information

<https://nla.nu.edu.kz/aidme2026>

Organizing Committee:

Co-Organizing Institutions:

- School of Engineering and Digital Sciences (SEDS), Nazarbayev University
- National Laboratory Astana (NLA), Nazarbayev University
- Institute of New Materials and Energy Technologies (INMET), Nazarbayev University
- Qazaq International Science and Technology Association (QIST)

The conference is organized by the [School of Engineering and Digital Sciences \(SEDS\)](#), the [National Laboratory Astana \(NLA\)](#), and the [Institute of New Materials and Energy Technologies \(INMET\)](#), in collaboration with the [Qazaq International Science and Technology Association \(QIST\)](#).

Program Leadership:

Yanwei Wang (Chair); Sagyn Omirbekov (Co-Chair)

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Official Conference Announcement Poster

AIDME-2026

International Conference on AI & Digital Modelling in Energy

For a Sustainable and
Intelligent Energy Future



5–8 August 2026



Nazarbayev University,
Astana, Kazakhstan

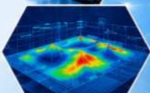


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Special Events

- Launch of the InterPore Kazakhstan Chapter
- 2nd China–Kazakhstan Symposium on CCUS & Oil and Gas Innovation Technologies



Artificial Intelligence &
Scientific Machine Learning



Digital Modelling &
Simulation



Scientific & High-
Performance Computing



Energy Materials, CCUS
& Porous Media



Single-track programme • Keynotes • Invited talks • Oral & poster presentations

Organized by SEDS, NLA and
INMET of Nazarbayev University



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In collaboration with

