

OGIP 2026



GUIDEBOOK

INTERNATIONAL MUD DESIGN COMPETITION OGIP 2026

“BALANCING DRILLING PERFORMANCE AND
ENVIRONMENTAL STEWARDSHIP THROUGH
SUSTAINABLE MUD DESIGN”

Organized By



In Collaboration With



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WELCOMING MESSAGE

The Oil and Gas Intellectual Parade (OGIP) stands as the premier annual international event hosted by the Petroleum Engineering Department at University of Pembangunan Nasional "Veteran" Yogyakarta. This gathering brings together hundreds of participants from various disciplines including petroleum, geology, geophysics, environmental studies, chemical engineering, and other related fields from across the globe. The event also features industry experts and practitioners from the oil, gas, and geothermal sectors. In partnership with SPE UPN-SC, IATMI-SM UPN "Veteran" Yogyakarta, INAGA-SM UPN "Veteran" Yogyakarta, and Patrapala Petroleum Adventure, we are delighted to introduce the 18th edition of OGIP 2026, centered around the theme "Breaking the Barrier to Empower Future Engineers in Driving Sustainable Energy Development".

This event offers a platform for both students and industry professionals to engage in discussions about sustainability within the oil and gas sector. It provides students with an excellent opportunity to showcase their expertise, ingenuity, innovation, capabilities, and community engagement in alignment with Tri Dharma Perguruan Tinggi principles through various activities including CEO Talk, Software Workshop, Grand Seminar, Company Visit, Social Activities, Intellectual Competitions, and Awarding Night.

We aim to establish a knowledge-sharing environment that prepares emerging talent for the innovative era of progressive energy development in the oil and gas industries. By bringing together students and professionals in a single venue, we envision creating a collaborative space where both groups can exchange ideas on sustaining and enhancing our energy resources and human capital to support manufacturing industries, generate employment opportunities, and advance energy sustainability.

Regards,

President Director of OGIP 2026



Muhammad Bachtiar Hasri Putra

NIM. 113 220 082

INTERNATIONAL MUD DESIGN COMPETITION OGIP 2026

PETROLEUM ENGINEERING DEPARTMENT

UNIVERSITY OF PEMBANGUNAN NASIONAL “VETERAN” YOGYAKARTA

I. Background

The oil and gas industry is a cornerstone of Indonesia’s energy security and economic development, yet drilling operations face increasing technical complexity alongside growing environmental and regulatory demands. Drilling fluids play a critical role in maintaining wellbore stability, drilling efficiency, and operational reliability, while also presenting potential environmental risks. Therefore, sustainable mud design is essential to balance high drilling performance with environmental stewardship. By integrating innovative, eco-friendly materials and optimized fluid properties, advanced drilling fluid systems can reduce environmental impact, support regulatory compliance, and strengthen Indonesia’s energy independence through responsible and sustainable resource development.

II. Theme of Event

The theme of this International Mud Design Competition is:
“Balancing Drilling Performance and Environmental Stewardship Through Sustainable Mud Design”

III. General Rules

1. The OGIP 2026 International Mud Design Competition will be held at 2nd of May 2026.
2. This competition is widely open for active undergraduate students from any universities around the globe which are related to Oil and Gas Industry.
3. Participants are advised to complete and submit the official registration form OGIP 2026 before the due date.
4. Participants have to comply with all the rules to join the competition, or else will be disqualified.
5. Each team that represent their university will consist of 3 members which will be guided by one team leader and each of the team member can only participate in one of the Competition.
6. Each university is limited to two representative teams in the final stage.
7. Each team is mandatory to make a team name with a logo that represent the team. The name and logo will be used in report and presentation. Any attribute or logo from universities are prohibited.
8. After submitting final report and presentation slide, Team Leader is requested to verify the submission to our contact person.
9. Competition rules are subject to change. If any rules change, there will be an announcement that will be sent through email or Team Leader contact. Clarification and change of the agenda will be informed before the due of competition.

IV. Competition Day Rules

1. Competition Day Rules

- Participant must attend the presentation day and cannot be replaced by other.
- The presentation and Q&A session must be delivered in English.
- Participants are prohibited to use any university attribute and mention university identities.
- During presentation & QnA, any external assistance are prohibited.
- Each team will be given 5 minutes preparation, 10 minutes for presentation, and 45 minutes for the Q&A session.
- Each team is responsible to display their own presentation file. The displayed file should not be different with file that submitted.
- Competition Officials
 - Judges: There will be three judges.
 - Moderator
 - Timekeeper
 - Host
- Team who fail to comply with rules will be given 10% point reduction.
- Other rules will be represented at the technical meeting day, which will be held on 30th of April 2026.

IV. Competition Day Rules

2. Judging Criteria

- **Project Report : 60%**
 - It consist of every aspect in a detailed way, completeness, and your engineering senses. These are some aspects that need to be highlighted:
 - Troubleshooting: Identify key drilling challenges and develop effective and efficient solutions.
 - Conformance: Ensure the proposed solutions are fit for purpose and comply with technical standards and environmental requirements.
 - In-depth Research: Support the proposed solutions with robust scientific data and industry-based research.
 - Mud Design: Formulate an innovative drilling fluid system that is specifically engineered to match the well conditions and operational requirements.
 - Performance: Demonstrate how the drilling fluids enhance drilling efficiency, wellbore stability, and formation protection.
 - Cost Effectiveness: Provide detailed cost analysis and optimization without compromising performance.
 - Innovation: Introduce proven innovative concepts that improve operational efficiency and environmental sustainability.
 - Health, Safety, Security, and Environment (HSSE): Prioritize safety, security, and environmental protection by minimizing risks and waste.
- **Presentation & QnA : 40%**
 - Showing interesting contents, fluency & systematic presentation, content & media that used in a presentation, time management, and team manners.

V. Competition Format

1. Case Distribution

The Preliminary Case will be given to the participants on March 1st, 2026 and the participants do the preliminary stage by working on the abstract after the preliminary case is given. And Case Final stage will be given to participants who have passed the abstract or preliminary stage.

2. Preliminary Abstract

- Abstract must include all parts of the case report (background, case analysis, conclusion, and solution).
- Abstract must be written in English.
- Abstract should consist of 250-400 words.
- Only team and member identities are allowed. Any university's identities and attributes are prohibited.
- Abstract should be submitted before 28th of March 2026 in .pdf format to <https://ogip2026.id/> with subject and file name: `IMDCOGIP2026_Abstract_Team Name`.
- The seven best abstracts will be qualified to the final round.
- Teams that qualified to the final round will be announce on 5th April 2026.
- Abstract format.
 - Paper size : A4
 - Margin : 4cm (Top & Left), 3cm (Bottom & Right)
 - Font : Times New Roman Bold (Title)
Times New Roman Regular (Content)
 - Spacing : 1,5
 - Alignment : Justified
 - Citation & References : APA Style
 - Abstract Template : [Abstract Template IMDC OGIP 2026](#)

V. Competition Format

3. Final Project Report

- Project Report must be written in English.
- Project Report should include (but not limited to):
 - Problem identification & Solution analysis
 - Mud design
 - Mud properties
 - Innovation
 - Health, Safety, Security, and Environment (HSSE) analysis
 - Economic analysis
 - Summary & Conclusion
 - References

Note: additional evidence and result from laboratory tests are recommended

- Project Report Format
 - Paper size : A4
 - Margin : 4cm (Top & Left), 3cm (Bottom & Right)
 - Font : Times New Roman Bold (Title)
Times New Roman Regular (Content)
 - Spacing : 1,5
 - Alignment : Justified
 - Citation & References : APA Style

Note: In addition to those already stated, it all depends on the team's innovation.

- Project Report file should be submitted before 30th of April 2026, in .pdf format to <https://ogip2026.id/> with subject and file name: IMDCOGIP2026_Project Report_Team Name.
- Team who fail to comply with rules will be given 10% point reduction.

V. Competition Format

4. Final Presentation

- Final Presentation must be written in English.
- Only team and team member identities are allowed. Any university's and attributes are prohibited.
- Final presentation file must include content from the project report. Displaying different data or changing data is prohibited.
- Each team will be given 5 minutes preparation, 10 minutes for presentation, and 45 minutes for the Q&A session.
- Final presentation file should be submitted before 30th of April 2026, in .pptx format to <https://ogip2026.id/> with subject and file name: IMDCOGIP2026_Final Presentation_Team Name
- Team who fail to comply with rules will be given 10% point reduction.

VI. Registration

1. OGIP 2026 International Mud Design Competition registration can be accessed through <https://ogip2026.id/> and submit the proof of your payment directly to the website provided

2. Registration fee :

Early Bird : IDR 150.000,- / USD 9, each team

Normal Registration : IDR 200.000,- / USD 12, each team

Extended Registration : IDR 250.000,- / USD 15, each team

Final Round

- Non – Full Accommodation : IDR 450.000,- / USD 27, each person
- Full Accommodation : IDR 650.000,- / USD 39, each person

The teams that are qualified to the final round must fulfill the payment 7 days after Official Delegates Announcement. Refer to the IDR registration for domestic delegates and USD for international delegates. Kindly make the payment to one of the following accounts:

Account Number : 0078 4206 1728

Bank Name : Blu by BCA Digital

Account Name : ATRINDIA HASIBAH ROFIANINGTYAS

For International Student

Paypal : <https://paypal.me/MeyandaKeisha>

Account Name : @MeyandaKeisha

VII. Key Dates

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|----|-------------------------------|---|------------------------------------|
| 1 | Open Registration | : | January 24th – 31st, 2026 |
| 2 | Normal Registration | : | February 1st – 22nd, 2026 |
| 3 | Extended Registration | : | February 23rd – 28th, 2026 |
| 4 | Preliminary Case Distribution | : | March 1st, 2026 |
| 5 | Preliminary Submission | : | March 27th, 2026 |
| 6 | Finalist Announcement | : | April 5th, 2026 |
| 7 | Final Case Distribution | : | April 5th, 2026 – April 11th, 2026 |
| 8 | Final Submission | : | April 29th, 2026 |
| 9 | Technical Meeting | : | April 30th, 2026 |
| 10 | Competition Day | : | May 2nd, 2026 |

VIII. Awards

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|------------------|---|---|
| 1. Champion | : | IDR 4.500.000,- / USD 265 + Certificate |
| 2. 1st Runner Up | : | IDR 3.000.000,- / USD 175 + Certificate |
| 3. 2nd Runner Up | : | IDR 2.000.000,- / USD 120 + Certificate |

IX. Contact Person

Project Manager of International Mud Design Competition OGIP 2026

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