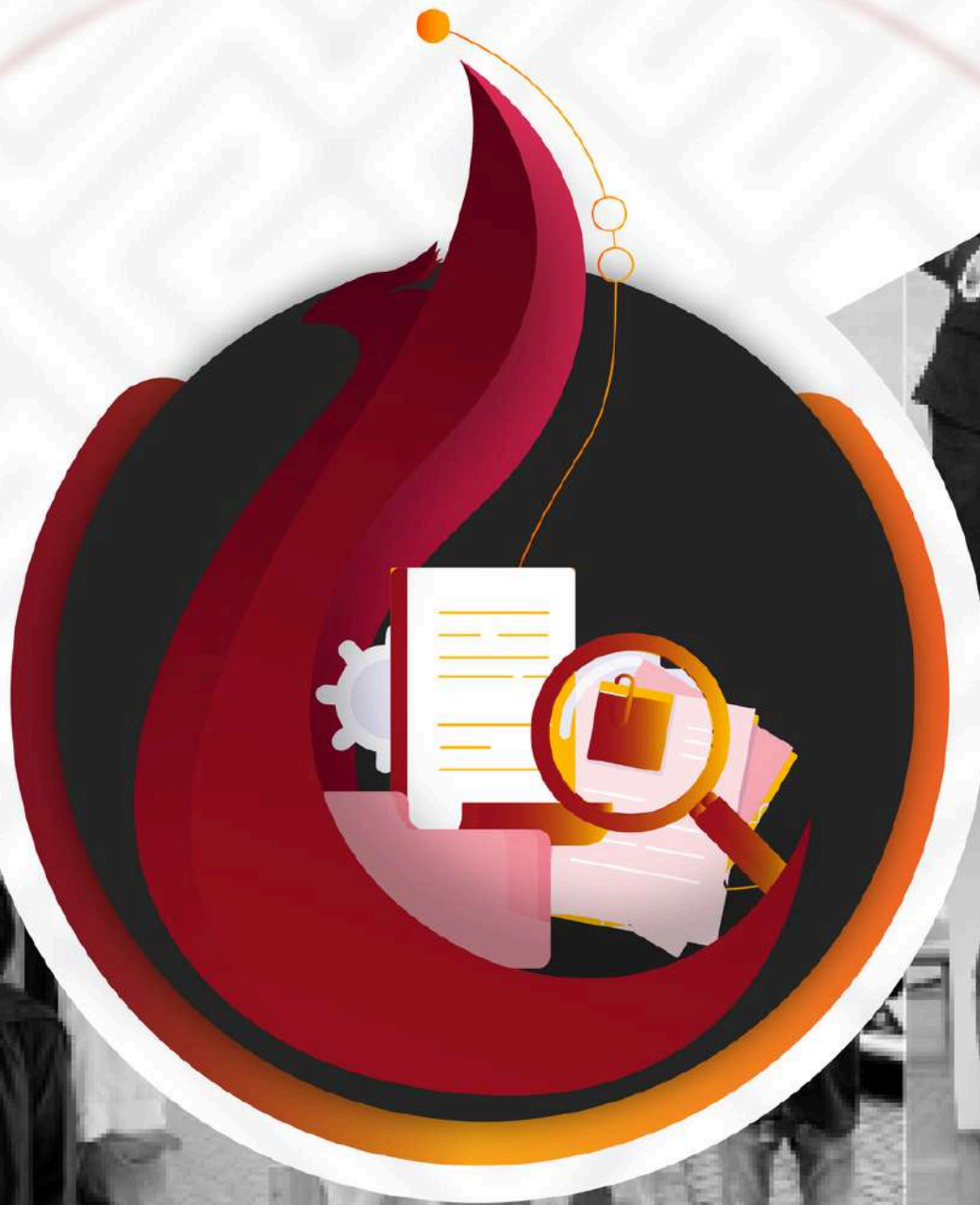


GUIDE BOOK DERRICK 2025



DERRICK
2025 Energy
Innovation
Action



PAPER COMPETITION

In Collaboration With:



Organized By:





Theme Of Paper and Poster Competition

**INNOVATING FOR A GREEN FUTURE : SUSTAINABLE
ENERGY AND INDUSTRIAL TRANSFORMATION**

Sub - Theme

- 1. Sustainable Fuel Production Clean Energy**
- 2. Innovation Green Chemical Process**
- 3. Renewable Energy Revolution Green**
- 4. Industrial Revolution**



Timeline

No	Event	Date
1	Open Registration and abstract submitted	9 - 22 October 2025
2	Abstract selection Announcement	23 October 2025
3	Collection of Full Paper Batch 1	24 October - 6 November 2025
4	Collection of Full Paper Batch 2	7 - 21 November 2025
5	Finalist Announcement of 6 selected Paper	26 November 2025
6	Technical Meeting	30 November 2025
7	Collection of PPT	3 Desember 2025
8	Competition Day	5 Desember 2025
9	Awarding	6 Desember 2025



GENERAL RULES

- Reaction 2025 Paper and Poster Competition must be undergraduate students (SI/D4) in Indonesia/International University.
- Each team consists of a maximum of 3 people with one person as team leader.
- Participants can only be part of one group and are not allowed to join other groups.
- Participants are allowed to compete from different study programs.
- Each team must have a team name as an identity and consists of a maximum of 2 words.
- One team can only submit one project.
- Scientific papers submitted in the competition do not contain elements of SARA, pornography, and anything that is contrary to Indonesian law.
- The project is original as evidenced by a statement letter.
- The copyright of the scientific work is owned by the author of the scientific work, while the committee has the right to publish the scientific work while still including the identity of the author of the work.
- Paper and Poster Competition consist of a preliminary round and a final round. The preliminary round is abstract selection and full paper selection. The final round is paper presentation dan Poster assessment.
- The abstract and full paper must be related to the theme of the Paper and Poster Competition. Abstract and paper must not differ greatly from each other



GENERAL RULES

- All submission files entered in the competition shall not have been previously published in a professional journal or have been used in other regional or international competitions.
- All submission files should be written, submitted, and presented in formal English.
- All submission files and the submission of materials for each round have to follow the given format.
- Plagiarism is not tolerated and will be disqualified at once.
- Judge's decisions are absolute and can't be interfered.
- Fail to class the rules, format, or late submission may receive deductions of points or even disqualification.
- The submission of registration forms should not be past the specified deadline.
- All participants should attend a technical meeting.
- All decisions made by the judges are absolute and not disputable.
- The result of the competition will be announced on Awarding Day.
- All participants will have access to the final score after the Awarding Day.
- All Paper and Poster Competition regulations are subject to change under any circumstances due to official decisions. Any changes to the rules and regulation will notify all participants via social media or email.



Registration Procedures & Stage

A. Registration and Abstract submission stage

- Registration is carried out by the team leader through Google Forms.
- Google form registration is attached to Linktree in @reaction.2025 Instagram bio.
- Registration and abstract submission are free of charge.
- Announcement of abstract submission will be announced on via instagram @reaction.2025 or @derrick2k25_ at October 23, 2025. Participants who pass the abstract selection can continue to the full paper submission stage.
- Abstract terms and writing systematics can be seen in the Terms of Work and Writing Systematics.
- Participants must include additional documents in the form of:
 - A. Scan / Photo of Student Identity Cards of all group members.
 - B. Screenshot of twibbon photos of all group members.
 - C. Screenshot of the evidence of following Instagram @reaction.2025
- Participants complete the application form on Google Forms that have been provided by the committee no later than at October 22, 2025 23:59 WIB (GMT+7)
- Registration Fees:
 - Free abstract per team
 - For Indonesia:

BATCH	Registration Period	Cost
1	24 October – 6 November 2025	IDR 125,000 per team
2	7 – 21 November 2025	IDR 175,000 per team

Registration Procedures & Stage

- For International :

BATCH	Registration Period	Cost
1	24 October – 6 November 2025	USD 9/team
2	7 – 21 November 2025	USD 15/team

- For domestic delegates, please refer to the IDR registration fees. Please kindly send the payment to one of these accounts:
 - BNI Bank: 1408613699 (Muhammad Rehan)
 - BRI Bank: 010701135855500 (Naila Adinda)
- For international delegates, please refer to the USD registration fees. Please kindly send the payment to our PayPal account: @TitrasiAsidimetri27
- Confirm payment within 1x24 hours to the number below by sending proof of transfer:
Contact Person:
Hatta Rafli : +6282286821268

B. Full Paper

- Participants who passed the abstract selection are required to submit scientific papers and make payment. Payment is divided into 2 batches with the following details below.
- Google form full paper submission and receipt of payment linked to Linktree in Instagram bio @reaction.2025
- Upload receipt of payment (JPG/PNG/PDF format max. 2 MB) with the file name format: ReactionPaperPosterPay (Batch)_Team Name_Name of University (not abbreviated)
Examples: ReactionPaperPosterPay (i) HexyroTeam_Politaknik Energi dan Mineral Akamigas



Registration Procedures & Stage

- Participants must include additional documents in the form of an acknowledgment letter and originality letter which can be seen in the Terms of Work and Writing Systematics
- Participants who passed the full paper stage will be announced on 26 November 2025 in Instagram @reaction.2024 participants who passed the full paper submission stage can continue to the final stage.

C. Final stage

- The final stage consists of two stages: presentation of project and poster assessment.
- The final stage is followed by 6 teams with the highest score at the full paper submission stage.
- The final stage was held online on December 5, 2025
- Teams that qualify to the final stage are required to attend an online technical meeting to find out the mechanism of the final stage on November 30, 2025 with at least one team member present.
- Google form of final presentation ppt and poster collection is linked on Linktree on Instagram @reaction.2025 bio no later than at December 3, 2025 23.59 WIB (GMT+7).
- Participant accommodation consisting of housing and consumption for 6 teams who qualify for the final stage will be funded by the committee.



ABSTRACT WRITING TERMS

- Paper size : A4 Format
- Margin
- Left : 4 cm
- Top : 3 cm
- Right : 3 cm
- Bottom : 3 cm
- Paragraph alignment : Justify
- Font Style : Times New Roman
- Font Size : 12
- Heading font size : 14
- Spacing : 1,5
- Columns : One
- Total Page : 1 page
- Reference : APA Style
- File Type : PDF



Full Paper Writing Terms:

1. Scientific writings entered into the 2024 Derrick Paper and Poster Competition (PPC) are original or the result of your own work and have never been published and won similar competitions.
2. Written work must be in English.
3. The manuscript is typed on A4 paper with left margins of 4 cm, top 3 cm, bottom 3 cm, and right 3 cm.
4. The manuscript is typed using Times New Roman font, size 12 pt, paragraph text uses 1.5 line spacing, and text alignment uses left-right alignment.
5. The manuscript consists of 10–12 pages (excluding statement of authenticity, validation sheet, foreword, abstract, table of contents, table list, list of figures, bibliography, and author's biodata).
6. Numbering Conditions:
 - The initial page consists of a Title Page, Statement of Authenticity, Endorsement Page, Foreword, Abstract, Table of Contents, List of Tables, and List of Figures. This page is numbered using small Roman numerals and typed at the bottom right (i, ii, and so on).
 - Page numbering uses Arabic numerals: 1,2,3,..., which are placed in the upper right corner. Page numbering 1 (one) starts from the Introduction Chapter.
7. Writing systematics consists of:
 - A. Initial Part
 - Title Page Section
 - a) The title of the written work is written in accordance with the General Guidelines for Indonesian Spelling.
 - b) The font type is "Times New Roman" and printed in bold.
 - c) Font size 14 pt.
 - d) Spacing 1.5 and alignment center.
 - e) Author/Team Identity Section.
 - The names of the head and team members are written under the title of Scientific Writing
 - The name of the institution of origin (Department or Study Program, Faculty, and University of origin) and year are written clearly and correctly.
 - Font type "Times New Roman" size 12.
 - Alignment center with spacing 1.5.
 - f) Can be downloaded at the following link:



Full Paper Writing Terms:

- Validity sheet
 - The Approval Sheet contains the title of the Scientific Paper, Sub-theme of the Work, Identity of the group leader (full name, NIM (Student Number), study program, department/faculty, university origin, telephone/cellphone number, email address), as well as the identity of the supervisor (full name, NIP/ NIDN supervisor, telephone number).
 - There is a validation date. The validation sheet is signed by the group leader and supervisor. Can be downloaded at the linktree on instagram @reaction.2025 bio
- Authenticity Statement Sheet
 - The authenticity statement sheet states that the written work submitted is truly your own work and not plagiarized, has never been published and has never won a similar competition.
 - The statement sheet contains the date and signature of the group leader and has a 10,000 stamp.
 - Can be downloaded at the following link:
- Foreword
- List of Contest

The written work contains a table of contents, a list of tables, a list of figures, and a list of attachments (if any).
- Abstrack
 - Abstracts must be written in English.
 - The abstract is typed on a maximum of one page containing 250–300 words in one paragraph which reflects the contents of the entire scientific paper.
 - Abstract typed on A4 size paper, Times New Roman font size 11 and 1,5 space with typing margins on the left side of 4 cm, right side of 3 cm, top and bottom borders of 3 cm.
 - Abstracts should be typed with left-right alignment (justified) and not indented.
 - At the top of the abstract contains the title of the written work (bold), the names of the authors, the institution of origin, and the team leader's email with a center alignment.
 - At the bottom of the abstract, there are 3–5 keywords from the written work being discussed. Keywords are written in italics.
 - Abstracts can provide further emphasis on the specific innovations that this research brings to the field.
 - Can be downloaded at the following link on instagram bio @reaction.2025



Full Paper Writing Terms:

B. Core Section

- Consist of:

CHAPTER I INTRODUCTION

CHAPTER II LITERATURE REVIEW

CHAPTER III RESEARCH METHODS

CHAPTER IV RESULTS AND DISCUSSION

CHAPTER V CLOSING

C. Final Part

- Bibliography

The bibliography uses Harvard style (last name, year, and sorted alphabetically)

- Attachment

Participant Identity:

Contain full name, gender, study program, department/faculty, NIM, place and date of birth, email address, telephone/cellphone number, awards received, and participant's signature.

POSTER TERMS

1. Posters must be in English.

2. Participants create a poster design that includes:

- Team member identity
- Derrick 2024 Logo, Reaction Logo, University Logo (participant's origin)
- Introduction
- Research methods
- Results and Discussion
- Conclusion
- Reference

3. Posters are made in the following format:

- JPEG/PNG
- Size: A3

4. Posters must not contain SARA, pornography or other bad elements.

5. Posters are made as attractive and creative as possible.

6. Participants are allowed to use any type of software.



ABSTRACT ASSESMENT CRITERIA

NO.	Assesment Format	Criteria	Weight Percent age (%)
1.	Relevance of ideas to themes and sub-themes	Compatibility between ideas and sub-themes that have been determined	20
2.	iCriticality and nnovation thoughts/ideas	Creative, critical, innovative, and uniqueness thoughts/ideas	30
3.	Originality of ideas	Authenticity of work	20
4.	Systematics and structure of writing	A series of representative explanations background behind, method, results discussion, and conclusion	30
TOTAL			100



Full Paper Assessment Criteria

NO.	Assesment Format	Weight Percent age (%)
CHAPTER I INTRODUCTION		
1.	The problem background is comprehensive and relevant to the chosen topic or theme	5
2.	Problems are described concisely and clearly	3
3.	The goal of solving the problem is written clearly and is relevant to the problem raised	2
CHAPTER II LITERATUR REVIEW		
1.	Present the results of the literature review related to the problems and solutions raised	7
2.	Number, variety and quality of references used	5
3.	The presentation of the results of the literature review is accompanied by tables, graphs or pictures supports the description written	3
CHAPTER III METHODOLOGY		
1.	The methodological approach used is relevant to the problem cited	8



Full Paper Assessment Criteria

2.	Describe clearly the type of data collected, data sources, and techniques used for data collection, as well as the equations or calculation formulas used are also written clearly and completely	9
3.	Written work procedures are accompanied by clear and credible references, such as scientific articles and books	7
CHAPTER IV RESULT AND DISCUSSION		
1.	The results obtained are written clearly and accompanied by completeness or clear supporting aspects of the data such as appropriate units, symbols, and information	7
2.	The written discussion is a detailed explanation of the cause effect relationships of the data obtained and the relationships between the data obtained	12
3.	The discussion explains how the selected independent variables influence, as well as answering the problem formulation and objectives in Chapter 1	7
4.	The discussion outlined is supported by relevant and credible references	5
CHAPTER V CLOSING		
1.	Contains conclusions from the resoluasi and discussions written briefly, concisely, and clearly	7



Full Paper Assessment Criteria

2.	Contains suggestions regarding deficiencies or other aspects that need to be added or paid attention to	3
WRITING FORMAT AND SYSTEMATIC		
1.	Paper size, margins, spacing, font, chapter writing order, typography, neatness of type, and so on layout	5
2.	Good and correct use of Indonesian in accordance with EYD	5
TOTAL		100



3. Betting Question

- This question only given by the team who make it to the second stage grand final.
- Each team must bet their score for each question. Minimum 5 score.
- For team who buzz in and can answer correct will got score as many as the score they bet on. The other team will got deduction score as many they bet to.
- For team who wrong answer the question will got deduction score and the other have chance to answer.

STUDY RESOURCES

Academic: Technical and Fundamental of Petroleum Engineers

- Schlumberger Oilfield Glossary
- OnePetro/PetroWiki
- Petroleum Engineering Handbook
- Energy Information Administration Glossary

Non-academic/Non-technical study

The Prize: The Epic Quest for Oil, Money, & Power, a book by Daniel Yergin

TOURNAMENT OFFICIALS

- **Judges:** Each round will have 3 judges, each judges will have the privilege to determine whether the team's answer is correct or false. The judge's decision is final and cannot be sued after the moderator read the next question
- **Moderator:** There will be two moderators in the preliminary, semifinal, and final rounds. Moderators will read the questions, state the rules of the competition explicitly, and ask the judges to determine the correctness of the team's answer, declare score reward and deduction, and call out the team name who has the right to answer
- **Scorekeeper:** There will be at least one scorekeeper for each round. The scorekeeper will keep and record the official score for each team
- **Timekeeper:** A timekeeper is responsible for standby and notifying the time limits of each stage



PRESENT

The winners of Paper and Poster Competition (PPC) Derrick 2024 will be awarded money and a certificate:

- 1st Winner: IDR 1,500,000 + E-certificate
- 2nd Winner: IDR 1,000,000 + E-certificate
- 3rd Winner: IDR 500,000 + E-certificate
- Best Poster: IDR 300,000 + E-certificate

INFORMATION SERVICES

1. Social media

a. Email: ppcreaction.derrick25@gmail.com

b. Instagram : @derrick2k25_ and @reaction.2025

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