

**American Association of Drilling Engineers
University of Houston
AADEUH**

End of the Year Report

29th April 29, 2021

Nicolas Acuna – President
Ricardo Zuniga – VPE
Linh Hoang – VPI
Sai Dudala – Secretary
Juan Flores - Treasurer



Contents

PURPOSE	4
INTRODUCTION	5
EXECUTIVE BOARD	6
CHAIRS	7
FALL 2020 and Spring 2021 Events	8
Professional Development	9
Academic	11
Social	11
Networking	17
OUTREACH	19
MEMBERSHIP	20
TREASURER.....	20
EXECUTIVE INITIATIVES	21
2021-2022 ELECTED OFFICERS.....	22
CONCLUSIONS	23
CONTACT INFORMATION	24
PREPARED BY:	25

PURPOSE

“To promote professional development to increase student success and involvement by organizing events for the dissemination of practical knowledge to members in the drilling industry.”

INTRODUCTION

The 2020-21 leaders of the AADEUH Student Section set two primary goals: build and maintain a well-organized and structured organization and create more job opportunities for members. With a board of about 14 members each semester, the organization made an effort in reaching these goals. Approximately 25 events were organized in order to provide members with outreach, networking, professional development, academic, and social opportunities. Many new ideas were implemented throughout the school year with the intent of enhancing the success of AADEUH. In the spring semester, the COVID-19 challenged student success, but student leaders prioritized the safety of members and completed their term. New officers were elected prior to the closing of the semester.

EXECUTIVE BOARD

The Executive Board is as follows:

- President: Nicolas Acuna
- Vice President of Internal Affairs: Linh Hoang
- Vice President of External Affairs: Ricardo Zuniga
- Treasurer: Juan Flores
- Secretary: Sai Dudala



CHAIRS

Chair positions were provided in order to introduce members into a leadership role. The Chairs for this school year are as follows:

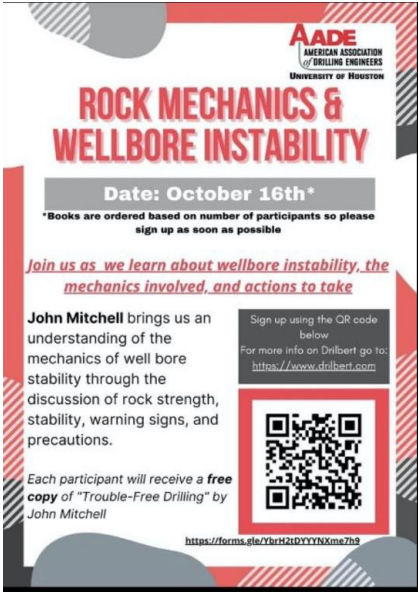
- Technology: Hicham Fathi
- Public Relations: Public Relation
- Fundraising: Marie Ghadban, Phuc Pham
- Advertising: Rebecca Duffy
- Outreach and Recruitment: Andrea Lopez
- Hospitality: Austin Lee, Andre Westbrook, Juan Garcia, Jose Inzunza

FALL 2020 and Spring 2021 Events

Given the unfortunate circumstances of the pandemic the team had to adapt to virtual meetings, webinars, and workshops. This ensure that everyone stayed safe while attending the informative and educational events. The board was still able to offer professional development, academic, networking, and outreach events. The following are were the 2020 – 2021 AADEUH virtual events which they networked with different industry professionals.



Professional Development



Drillbert Training – John Mitchell author of “Trouble-Free Drilling” taught a course on the rock mechanics of wellbore instability. Members who attended this workshop received a free copy of this book.



UH-AADE in collaboration with PiET offered a StreamFlo Wellhead 101 workshop, taught students about the different mechanism of wellheads, problems that emerge with these, and some of their wellhead technology. Student received a certificate for attending this three-hour workshop.



UH-AADE with Halliburton hosted 4 workshops, which include: Do’s and Dont’s of Interviews, How to Build a Resume, I got an offer ... Now what? and Networking and Social Media. Students were able to learn useful information to use to help boost their chances of landing a job/internship.

Wellhead School
AADE
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 Cullen College of Engineering
 Friday, Feb 26th
 Stream-Flo
 Virtual MS Teams
 9:00 AM — 10:30 AM

- Refresher on Conventional Wellhead
- Overview of Times Savings Wellhead
- CFB-T Wellhead Equipment

Stream-Flo / Master Flo Valve
TRAINING CENTER
 9715 Derrington Road
 Houston, TX 77064

StreamFlo and Master Flo hosted a second part to their wellhead workshop. In this workshop students were retaught the conventional wellhead information. Times savings of the wellheads was presented and some CFB-T wellhead equipment was demonstrated to the students. Attendees to this workshop were given a certificate of completion.

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40 gyrodata
 YEARS OF INNOVATION

SECOND GENERAL MEETING
MARCH 9 6PM
 & "Fundamentals of Gyros" Workshop with Gyrodata

Rob Shoup is currently the operations technical support manager for Gyrodata. In this role, he works with engineering, product line, and operators to develop new technologies and solutions designed to overcome the challenges of the modern oil field. Mr. Shoup has held a number of positions over the past 30 years including oil special projects, North American regional manager, global technical services manager, and senior technical advisor. He spent 5 years in the field running geosynthetic surveys and operations and integrating Gyrodata's technology with various service providers' offerings. Rob has been an integral part of the successful development and deployment of Gyrodata's solid-state sensor technology and wellbore-to-mudlogging system.

LEARN ABOUT:

- THE HISTORY AND EVOLUTION OF GYROSCOPES
- FUNDAMENTALS OF GYRO DESIGN AND APPLICATION
- THE USE OF GYROSCOPES IN OIL AND GAS OPERATIONS
- REAL WORLD EXAMPLES OF WELLBORE PLACEMENT ACCURACY IMPROVED BY GYRO SYSTEMS

AND EARN A CERTIFICATE FROM GYRODATA WITH ATTENDANCE!

For our 2nd general meeting, Gyrodata with guest speaker Rob Shoup offered to us a workshop on gyros. Students were taught from the history of gyros to the new technologies that are available for gyros. Upon completion of this workshop students were given a certificate of completion.

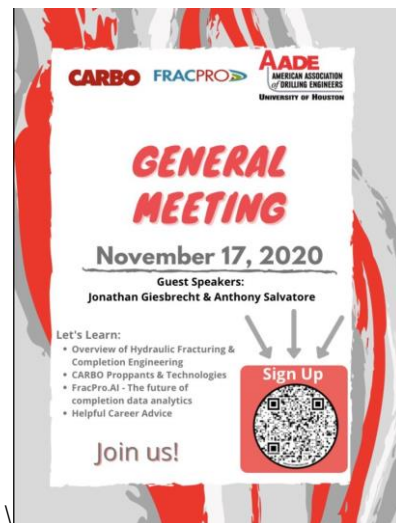
Academic



In collaboration with all of the Petroleum Organization, a Meet and Greet 1st General Meeting was held. This meet and greet allowed for new students to learn about what each of the organizations does and how joining will benefit their academic and career goals.



2nd General Meeting was held with a great guest speaker Michael Contreras a past UH-AADE President. In this general meeting Michael addressed various questions students had of going into the industry right out of school. Also some tips were given on how to maintain proper social media to get the attention of companies/recruiters.



3rd General Meeting with Carbo and FracPro had guest speakers Jonathan Giesbrecht and Anthony Salvatore talk about the different proppants that Carbo has along with each of their functions. Some of the FracPro software was demonstrated to the students. Overall learning about Completion Engineering aspects.

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NABORS

Nabors

Webinar:

The Value of Drilling Automation

6pm September 30th

HOW DOES AUTOMATION BRING VALUE TO MY DRILLING OPERATION?

Join Scott Coffey, drilling & automations product development manager at Nabors, as he uses his near decade of experience to answer this question and even more on technology and automation in the drilling industry

https://docs.google.com/forms/d/e/1FAIpQLSv8BDG0-AQjvWZQL7HQ6xkL7m6E_7Ab8A5yZqTY1wAvie-wfem

A webinar was hosted with Nabors guest speaker John Scott, which consisted of The Value of Drilling Automation. In this webinar students were taught about the different new drilling automation technologies and all of the positive things that come out them.

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WORKSTRINGS INTERNATIONAL
EXPERIENCE EVERY SERVICE COMPANY

WORKSTRINGS

Come Learn About Workstrings!

Outline

- Introduction
- Workstrings' History
- Fundamentals of Drill Pipe
- Connection development and history
- Engineering Services
- Landing Strings and completion/intervention strings
- Corrosion Mitigation

Guest Speaker: Noah Tritz

- Over 8 years of experience in the oil and gas industry
- Business Development Manager
- International Global Account Manager
- 20k Team Lead

Workstrings International hosted a webinar about workstrings with guest speaker Noah Tritz. An overview of these drill pipe, landing strings, and completion/intervention strings was discussed. Some of the technologies used to mitigate corrosion were discussed as well.

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AES FLUIDS DRILLING FLUIDS WALKTHROUGH

October 21 (7PM-8PM)

Drilling fluids can act as one of the largest cost factors in drilling a well, but that doesn't mean everyone at the rigsite understands them. Matt Offenbacher and Richard Toomes with AES Drilling Fluids walk you through basic drilling fluid concepts, review a mud report, and discuss new drilling fluid technologies.

Sign Up Form

Matt Offenbacher is the Director of Technology & Marketing of AES Drilling Fluids. Matt graduated from The University of Texas at 2003 with a degree in Chemical Engineering. He started out working at M-I SWACO as a fluid engineer in Bakersfield, California. He then began working as a global technical service engineer in Houston, helping solve technical issues and deliver new technology to the field. He also spent 2 years working at Halliburton where he worked as a Senior Supervisor (SSE) of Service projects. In 2009, Richard joined AES Drilling Fluids and focuses primarily on business development through the utilization of new technology and his customer relationships.

Richard Toomes is a business development specialist at AES Drilling Fluids. Richard graduated from San Francisco State University in 2008 with a degree in Finance & Economics. He worked in the oilfield before he worked at M-I SWACO as a fluids engineer in Bakersfield, California. He then began working as a global technical service engineer in Houston, helping solve technical issues and deliver new technology to the field. He also spent 2 years working at Halliburton where he worked as a Senior Supervisor (SSE) of Service projects. In 2009, Richard joined AES Drilling Fluids and focuses primarily on business development through the utilization of new technology and his customer relationships.

AES Drilling Fluids hosted a webinar with guest speakers Matt Offenbacher and Richard Toomes. In this webinar students were taught to understand the drilling fluids. By learning how to review a mud report, and an overview of new drilling fluid technologies.



UH-AADE in collaboration with SPE and PiET hosted Marathon Oil for an Info Session. With guest speakers such as the Permian Regional Vice President. In this info session over 50 students had the opportunity to learn about Marathon Oil and to ask their questions. Students also were able to submit their resume to Marathon Oil.



UH-AADE in collaboration with ASME, PiET, and SHPE hosted Tenaris for info session. In this info session students were able to learn about what Tenaris does and of their pipe technology and facilities. Students were also able to ask questions and submit their resumes to Tenaris.

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Spears & Associates

First General Meeting

FEBRUARY 9TH 6PM

Join Us as David Hutchison Presents:
"An Overview of the Oilfield Service Industry"

David Hutchison, Senior Advisor at Spears & Associates and Founder of Hutchison Ventures, LLC. will teach us all about OFS

- The difference between OFS and E&P
- The importance of OFS to the O&G Industry
- Key services and companies in the OFS sector
- How Spears & Associates measures OFS markets
- Key metrics for understanding the O&G industry
- Differences between for OFS and E&P
- Outlook for career opportunities in the OFS sector

https://hsca.gyrote.com/forms/d/e/1FA1QL9cPXX3Z2x0s_b055_L43wN6s+Y00XfM5u0RHH82ofakTn/viewform

UH-AADE had guest speaker David Hutchison from Spears & Associates. In this discussion students were taught about career topics and how to approach the industry as a incoming graduate student.

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For the 3rd general meeting MS Directional with guest speakers Eric Arebalo and Derek Koller. In this meeting students learned about mud motors and how they are used in downhole BHAS. Students also learned about the correct pairing of mud motors to the specific drilling application

Students were taught about shale plays, drilling, completion workover and some intervention steps by NOV. This webinar taught everything from the basics of shale properties to complex things such as completion and workover.

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altus
Well Experts, Inc.

History and Evolution of Casing Design Theory and Practice

Presented by
John A. Howard, PE

After graduating with a Petroleum Engineering degree from the University of Oklahoma, John joined Tenneco in Lafayette as an Offshore Drilling Engineer / Company man for Jack-Ups, Semis, and Platforms rigs from Texas to Florida. John then joined Enertech in 1988. Enertech is the company that developed WellCat and StressCheck software packages. Although WellCat is the Industry Standard Software, each company uses it differently as there is no Industry Standard for Casing and Tubing Design. John was a member of the Enertech Board of Directors and was Worldwide Sales Manager when Enertech was sold to Halliburton in 1996. Halliburton later purchased Landmark and merged the two companies and Landmark currently sells the WellCat and StressCheck software packages. A group of former key Enertech engineers formed Altus in 2001 when the non-completes had expired to provide consulting, training, mentoring, QA/QC, failure analysis and manuals for tubular analysis. John has taught WellCat and Casing Design Theory in over 30 countries on 6 continents. Altus core business remains casing and tubing analysis. Altus has also been leading a Multiwell Thermal / Stress Analysis Joint Industry Project that has developed Cloud-Native software for thermal loading and tubular analysis.

MARCH 24 6PM

Guest speaker John Howard, taught students about the history and evolution of casing theory and practice. Students were taught from the basics of doing quick calculations such as the Mud Weight one to more complex ones.

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LIVE
3.29.2021 6 PM CST

OIL & GAS WEBINAR

- Technical
- Entrepreneurship
- Current Market
- Resume/ Job Interview
- Internship

Special Speaker

Owner / Cofounder- Gibson Reports
Host- Vdoerlocksmith
Board of Directors IADD

JOIN US

David Gibson

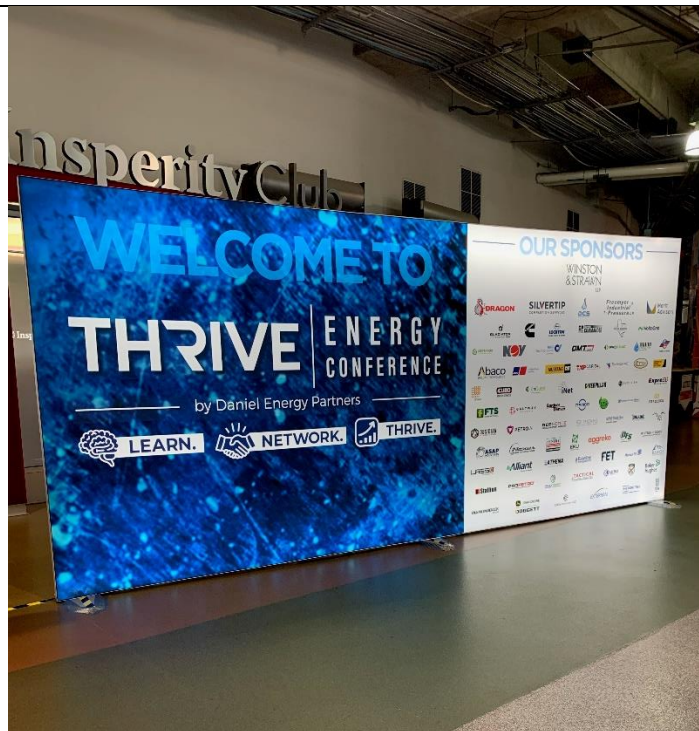
David Gibson from Gibson Reports came out to give a very energetic 2 hours webinar on various topics students could choose from. Students were able to leave this webinar with new skills and knowledge on how to approach the industry right out of school.

Networking

The AADE Houston Chapter invites UH board members every month to attend Luncheons at the Petroleum Club in Downtown Houston. In this picture two students were invited to the luncheon in which they networked with different industry professionals.

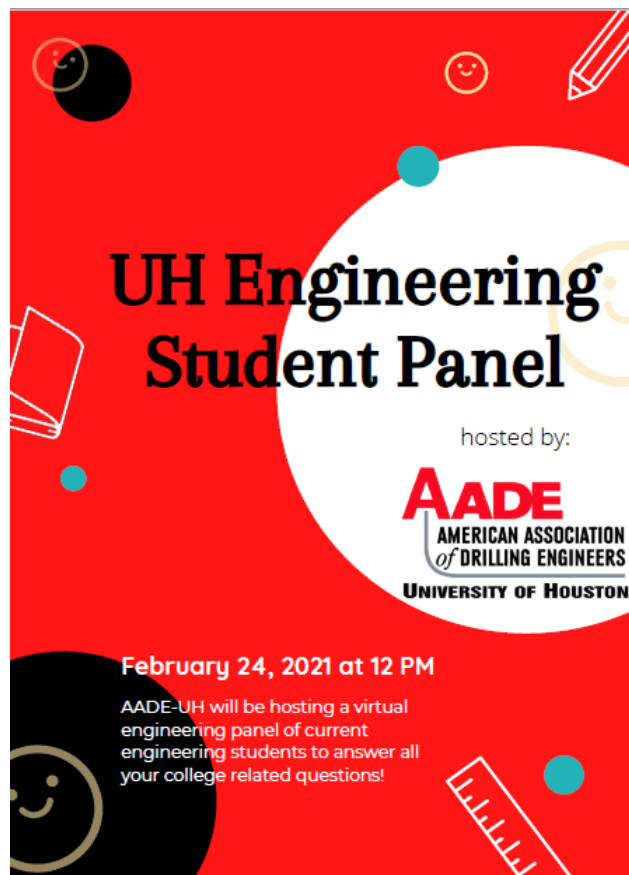


The President (Nicolas) was able to attend various networking events. The pandemic was not able to stop him from building relationships and representing the successes of the student section. One of his biggest highlights was being able to attend THRIVE Energy Conference hosted by Daniels Energy Partners. This event was an invite only, yet he managed to get a THRIVE ticket. After the event, he received huge acknowledgements on LinkedIn from industry professionals. The AADE-UH board was honored in having Nicolas as the President for this academic school year.



OUTREACH

AADE-UH is hosted an Engineering Student Panel directed to inform high school students interested in majoring in engineering about various topics such as academics, campus life, internships, student organizations, and much more! High school students had the chance to ask current UH college students all their questions about UH engineering or college in general. The panel consisted of Nicolas Acuna, Juan Flores, Andrea Lopez, and Ashama Babaroom. They were able to speak to about 200 high school students in a one-hour time frame. The goal was to increase petroleum engineering enrollment for future college students.



MEMBERSHIP

AADEUH Annual Membership increased by 15% in the 2020-2021 academic year. This increase is associated with the idea of the Executive Board granting free membership during general meetings. Not only does AADEUH have members from petroleum engineering, but also students with majors in computer science, various engineering disciplines, mathematics, pharmacy, hotel and restaurant management, nursing, and accounting.

TREASURER

Due to the pandemic AADEUH had to reschedule the Annual Sporting Clay Tournament 3 times. Our scheduled clay shoot will be May 21st, 2021. The current board along with the incoming board are in the process of preparing the event. We hope that the clay shoot will be successful as the previous years. The virtual aspect allowed the board to save money by reducing typical spending such as: tailgates, food offered during meetings, and social gathering events.

We would like to thank AADE Houston for providing our members with the opportunities to apply for \$1500 renewable scholarships. Many UH members who applied received the award and are very happy to enjoy the benefits from this great organization. On the behalf of the Petroleum Department at UH we appreciate the support from AADE Houston Chapter.

EXECUTIVE INITIATIVES

The following list summarizes a few ideas implemented by the Executive Board to continue to grow the organization:

1. Setting the Foundation: Before the beginning of the fall semester, the AADE-UH board reconstructed the event calendar to comply with the CDC regulations. The board insured that every member was safe during the pandemic.
2. Connecting with Members: The AADE-UH President and VPE communicated to the members on the Social AADE GroupMe. The members were up to date with the incoming virtual events. The board also answered any question and concerns members had on the chat. The Chat currently has 100 members and the future board looks forward to adding all organization members.
3. Oil and Gas Career Fair: AADE-UH founded the Career Fair Committee in Summer 2019 that includes the 4 Presidents of each UH Petroleum Engineering organization and a few organization board members. The Oil and Gas Career Fair was not able to conducted this year due to various circumstances. The Career Fair will be brought back this upcoming academic school year and will be able to grow in the upcoming years by the help of UH-Alumni
4. Collaboration: As shown in the event details, many AADE-UH events were in collaboration with SPE, PiET, SPWLA, and SHPE. Collaboration gives engineering students the opportunity to connect with more members and the organization to decrease expenses. We thank each organization for successful collaborations!

2021-2022 ELECTED OFFICERS

The 2021-2022 AADE-UH Elections were held online via Zoom once again due to COVID-19. Each candidate had 5 minutes to present their reasons and goals for being an officer. The results are as follows:

- President: Juan Flores
- Vice President of Internal Affairs: Linh Hoang
- Vice President of External Affairs: Ricardo Zuniga
- Treasurer: Rebecca Duffy
- Secretary: Andre Westbrook



CONCLUSIONS

1. Approximately 25 virtual event results are presented and separated into various categories: outreach, networking, professional development, and academic.
2. AADEUH Annual Membership increased by 15% in the 2020-2021 academic year.
3. The AADE Houston Chapter provided scholarships each semester for UH members.
4. Have begun conducting a new initiative in which new freshman and sophomore students are recruited for membership in UH-AADE.
5. New officers for the 2021-2022 academic year were elected via Zoom presentations.
6. Collaborated with other UH Student Organizations to offer informative events to a wider audience
7. The President (Nicolas) did an outstanding job networking for the success of the chapter

CONTACT INFORMATION

Email: aadeuh@gmail.com

Website: <http://aadeuh.org>

LinkedIn: <https://www.linkedin.com/in/aadeuh/>

PREPARED BY:

Ricardo Zuniga

April 2021

Revised by:

Nicolas Acuna

April 2021

