

SOCIETY OF PETROLEUM ENGINEERS

Wyoming Petroleum Section
Marron Bingle-Davis, Secretary
P.O. Box 2154
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Section Website For Latest News:
<http://wyoming.spe.org/>

2021-2022 Wyoming Petroleum Section				
Section Chairman	Dave Chase	BLM	261-7685	dchase@blm.gov
Treasurer	Julie Cruse	Consultant	258-6092	juliemcruse@gmail.com
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Secretary	Marron Bingle-Davis	Sunshine Valley Petroleum	233-8737	marron@sunshinevalleypetroleum.com
Continuing Education	Vacant			
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UPCOMING AREA MEETINGS

WYOMING GEOLOGICAL ASSOCIATION – All meetings at Occasions by Cory (see Calendar Page). Lunch Buffet served from 11:15 to 12:00 at a cost of \$20.00. Contact the WGA office at 237-0027 or wygeology@gmail.com for more information or to make reservations. **Reservations are mandatory and are due Tuesdays by 5 PM for that week's talk.**

February 4, 2022 (Virtual Only): Junichi Sugiura – Sanvean Technologies– *Understanding High-Frequency Drilling Dynamics using Advanced Sensor Technology*

February 11, 2022: TBA

February 18, 2022 (Virtual Only): Gerald Forney – *Ethiopia*

February 25, 2022: TBA

UPCOMING MONTHLY PRESENTATIONS FOR THE SPE WYOMING PETROLEUM SECTION

Feb 4, 2022 (Virtual) - Junichi Sugiura – Sanvean Technologies– Understanding High-Frequency Drilling Dynamics using Advanced Sensor Technology





Society of Petroleum Engineers

Wyoming Petroleum Section February 2022 Newsletter <http://wyoming.spe.org/>



When: **February 4, 2022**

Where: **VIRTUAL ONLY**

Time: 12:00 PM

RSVP at

<https://www.spe.org/en/dl/schedule/>



Event: Junichi Sugiura – Sanvean Technologies –
Understanding High-Frequency Drilling Dynamics
using Advanced Sensor Technology

Abstract:

During drilling, bottom-hole assemblies (BHAs) are often subjected to severe shocks and sustained high-magnitude vibrations. These downhole dysfunctions can result in equipment failures and associated non-productive time. The associated reduction in drilling performance and increase in drilling costs has driven extensive research towards gaining a better understanding of the complex downhole drilling dynamics.

In the past decade, rapid advances in high-temperature, cost-effective, miniature solid-state sensors have accelerated downhole high-frequency drilling-dynamics research to new levels. Downhole drilling-dynamics studies using compact high-frequency recorders deployed at multiple points in the BHA have dramatically improved our understanding of the complex dynamic behavior of the bit, BHA and drillstring. Further, the amount of downhole data collected with such sensors is rapidly growing, creating a new opportunity for big data analytics and condition-based monitoring/maintenance. The phrase "Data is the New Oil" is likely to have ever greater relevance within the drilling industry in the coming years.

This presentation discusses the latest miniature, solid-state, high-frequency drilling-dynamics sensor innovations and drilling-dynamics discoveries, and considers future trends regarding the use of such sensors in the drilling industry. These sensors provide valuable drilling-dynamics insight at the bit, mud motor, and even all the way to the rig surface equipment.



Biography:

Junichi Sugiura is a vice president of Sanvean Technologies, Chartered Petroleum Engineer, Fellow of the Institution of Engineering and Technology, and Fellow of the Energy Institute. Sugiura's research interests include sensor technologies, data analytics, and drilling dynamics/mechanics. He is the author/coauthor of 70 publications/presentations and holds 60 US patents/pending patents in downhole technology. Sugiura holds a BSEE Honors from the University of Texas at Austin. From 2012 to 2020, he served as a session chair and program committee chair for the IADC/SPE Drilling Conference and the SPE ATCE. Sugiura was the 2020 SPE ATCE chair in Houston, Texas, and he is the SPE Distinguished Member.





CALENDAR OF EVENTS and NEWS WYOMING PETROLEUM SECTION

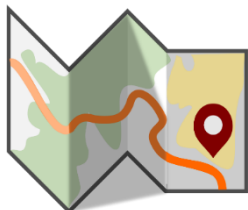


Due to our excellent participation in past continuing education events, we will continue to offer these as they become available. Our web address is <http://wyoming.spe.org>

The SPE Wyoming Petroleum Section has sent out letters requesting scholarship sponsors for the 2022 year. Please consider helping out these deserving students in their academic pursuits. Scholarships will be awarded in the Spring of 2022. If you need further information please contact Sabrina Hamner at:
sabrina.hamner@wyo.gov



We appreciate your patience as we move meeting locations, which will now be held at the Occasions by Cory (old Lai Thai). Entrance is through the back of the building and then up the stairs.



**OCCASIONS BY CORY
303 S. WOLCOTT ST.
CASPER, WY 82601**



CONGRATULATIONS TO 2021-2022 SPE SCHOLARSHIP RECIPIENTS

Marshall Hegenstaller – University of Wyoming

Saba Sadiq – University of Wyoming

Tolulope Uwaya – University of Wyoming

William Jordan – Colorado School of Mines

Nikhil Kadirisani – Colorado School of Mines

Chiang Cheng Siew – Colorado School of Mines

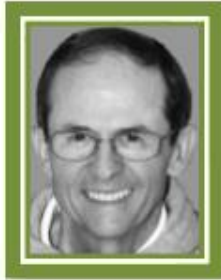
Morgan Whitlock – Colorado School of Mines

Gustavo Barraza – Colorado School of Mines

Kenneth Clark – University of Mary Hardin Baylor

GREAT JOB – KEEP UP THE GOOD WORK!!

UPCOMING OPPORTUNITIES



11th Annual Gene R. George Memorial Golf Tournament

Friday, June 24, 2022, 1:00 PM
Three Crowns Golf Course, Casper, Wyoming



Sponsorship Types

- ____ **Hole Sponsor - \$250**
◦ Includes sign at hole (Max 2 sponsors per hole)
- ____ **Pin Prize - \$200**
◦ Includes sign at hole (Max 1 sponsor per hole, covers prizes for longest drive, etc.)
- ____ **Driving Range - \$150**
◦ Includes sign at Driving Range
- ____ **General Support - \$_____**
◦ Covers general costs such as food, drink tickets, door prizes, etc.
- ____ **Additional Donation to Scholarships - \$_____**
◦ Applied directly to scholarships *in addition to* sponsorship.

All sponsors will be recognized through signage and announcements during the tournament.
All proceeds go directly to SME, SPE, WGA and WAPL scholarships to support our future scientists!

Company Name: _____

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Payment: Check #: _____ CC #: _____
WGA Tax ID: 83-6060963 Payable to Wyoming Geological Association EXP: _____

Please email completed forms and logo (.eps
format preferred): genegeorge.golf@gmail.com,

or snail mail completed forms to
WGA, P.O. Box 545, Casper, WY 82602.

General information:

- Email - genegeorge.golf@gmail.com
- Graeme Finley: 307-247-1454
- Kelly Meyers: 307-250-2790
- Dayton Lewis: 307-267-6828

