

**SOCIETY OF PETROLEUM ENGINEERS**

Wyoming Petroleum Section  
 Marron Bingle-Davis, Secretary  
 P.O. Box 2154  
 Casper, WY 82602-2154



Section Website For Latest News:  
<http://wyoming.spe.org/>

2020-2021 Wyoming Petroleum Section				
Section Chairman	Dave Chase	BLM	261-7685	<a href="mailto:dchase@blm.gov">dchase@blm.gov</a>
Treasurer	Julie Cruse	Consultant	258-6092	<a href="mailto:juliemcruse@gmail.com">juliemcruse@gmail.com</a>
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Secretary	Marron Bingle-Davis	Sunshine Valley Petroleum	233-8737	<a href="mailto:marron@sunshinevalleypetroleum.com">marron@sunshinevalleypetroleum.com</a>
Continuing Education	Xuebing Fu	SWIFFTech	(713) 321-9198	<a href="mailto:engineerfu@gmail.com">engineerfu@gmail.com</a>
Membership Chair	Sabrina Hamner	WOGCC	234-7147	<a href="mailto:sabrina.hamner@wyo.gov">sabrina.hamner@wyo.gov</a>

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# UPCOMING AREA MEETINGS

## WYOMING GEOLOGICAL ASSOCIATION –

All **WGA/SPE IN-PERSON MEETINGS FOR NOW HAVE BEEN CANCELLED** due to the COVID-19 pandemic. We will be reevaluating in-person meetings soon. The **BELOW TALKS ARE HOSTED VIRTUALLY FRIDAYS AT NOON**. If you would like to attend these virtual talks, please RSVP to [wygeology@gmail.com](mailto:wygeology@gmail.com) by Thursday to receive the meeting information.

**February 5, 2021 (SPE DL):** James Ohioma Arukhe – Saudi Aramco – *Active Oilfield Development While Preserving Fragile Ecosystem (1 PM start time)*

**February 12, 2021:** Brett McDonald – NOAA-Riverton – Topic TBA

**February 19, 2021:** Christoffer Masi – University of Wyoming – *Converting Coal to High-Value Carbon Materials via Microwave Assisted Technique*

**February 26, 2021:** TBA

## UPCOMING MONTHLY PRESENTATIONS FOR THE SPE WYOMING PETROLEUM SECTION

**February 5, 2021 SPE Meeting at 1 PM – Virtual SPE Distinguished Lecturer – James Ohioma Arukhe – Saudi Aramco – Active Oilfield Development While Preserving Fragile Ecosystems**

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

**March 5, 2021 – Chad T, Hammond – DCiii - OPTIMIZING CHEMICAL INJECTION PROGRAMS THROUGH ADVANCED CONTROL, MONITORING, DATA, AND TRANSPARENCY**





Society of Petroleum Engineers

## Wyoming Petroleum Section February 2021 Newsletter

<http://wyoming.spe.org/>



When: **February 5, 2021**  
Where: **VIRTUAL MEETING**  
Time: **1:00 PM**

RSVP to  
<https://www.spe.org/en/dl/schedule/>  
for meeting link



**Event:** **James Ohioma Arukhe – Saudi Aramco – Active Oilfield Development While Preserving Fragile Ecosystems**

### **BIOGRAPHY:**

Dr. James Arukhe, Project Lead for Saudi Aramco's ambitious development in the world's fifth largest offshore oilfield will advocate balancing economic ambitions with environmental responsibility using Manifa case study. James received degrees B.Eng. Petroleum Engineering (Chevron/NNPC Scholar) University of Benin, MBA Executive, University of Lagos, and M.Sc. Petroleum Engineering (Alberta Government Scholar), University of Calgary. James received a Doctoral degree of Management in Organizational Leadership (Delta\_Mu\_Delta Scholar), from University of Phoenix, USA and was valedictorian for the 2015 commencement ceremony in Arizona, USA. James has published several papers on various subjects and filed a smart well patent on inflow control valves.



### **ABSTRACT:**

Developing offshore oilfields has always been a challenge. How is exploitation of such resources possible while preserving the sensitive environment? Balancing economic ambitions with environmental responsibility is illustrated with Manifa development, the largest offshore hydrocarbon development project, off Saudi Arabia's coast. Manifa is a huge six-reservoir field stretching 45 km by 18km, lying in less than 15 metres of water. The field is capable of producing close to a million barrels of oil per day in a pristine environment.

Manifa field is not just a treasure trove of oil and gas, but also a delicate environmental habitat teeming with marine life including the endangered Hawksbill turtle, and a safe haven for migratory birds. As the oil lay just beneath the shallow waters, the field development presented a major environmental challenge.

In this DL presentation, the author will share best practices including several environmental impact studies conducted to minimize the environmental impact of developing an ecologically-delicate field, without sacrificing overall economics. To avoid damaging the fragile ecosystem, a radical new approach was undertaken. Integrated proactive sustainability concepts during construction, drilling, reservoir management and production that limit environmental impact will be presented. The project's outcomes exemplify that economic growth and environmental protection are not mutually exclusive through proper engagements, commitments to collaboration, and environmental stewardship. The Manifa offshore project has received several prestigious environmental and project execution awards.

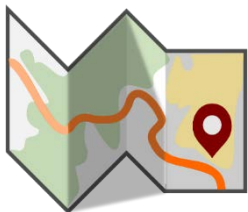


## CALENDAR OF EVENTS and NEWS WYOMING PETROLEUM SECTION



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 2021 year. Please consider helping out these deserving students in their academic pursuits. Scholarships will be awarded in the Spring of 2021. If you need further information please contact Sabrina Hamner at: [sabrina.hamner@wyo.gov](mailto:sabrina.hamner@wyo.gov)



**MEETINGS ARE VIRTUAL  
UNTIL FURTHER NOTICE!!**

**RSVP TO [wygeology@gmail.com](mailto:wygeology@gmail.com)  
FOR LINK TO SEE TALKS VIA ZOOM**

## **UPCOMING OPPORTUNITIES**

*Look for more information coming soon on an upcoming free virtual workshop called "Freeware for Freelancers." The workshop will provide descriptions and instructions on beneficial freeware that is easily accessible for you to utilize during these unstable times.*