



New Orleans Chapter Newsletter

Society of Independent Professional Earth Scientists
November 2020

Climate Change: A Technical Perspective

James D. Robertson

Salt Creek Petroleum, LLC



Chairman's Column

A ZOOM MEETING LINK will be sent by Eric Broadbridge but first a few facts and tips.

1. You do not need a camera to view the Zoom meeting
2. You will need speakers so you can hear the talk
3. All participants will enter the meeting automatically with their Camera (video) Off and Microphone Muted.
4. To keep meeting organized do not turn on your Camera (Video) or Microphone
5. Click on the link below at 11:45am
6. It will ask you to download the Zoom App on your computer
7. Click on "Save File"
8. Go to your "Download" Folder and double click on the file to run the Zoom App
9. It will then install and run the Zoom App on your PC
10. NOTE: if you have already had a Zoom Meeting in the past and have the App on your PC it will ask you to Open Link
11. It may ask for your name and Pass code which can be found below
12. TIP#1 - If you move your cursor over your screen the menus will pop up - they are naturally hidden when not using your mouse.
13. TIP#2 - the best way to view is side by side speaker - to do this click on the "View" button located at the top right. This will allow you to View the Slide Show on the left and the speaker (Chris) on the right of your screen.
14. TIP#3 - If you would like to see all of the Participants within the meeting click on the Participant's tab near bottom middle.
15. TIP#4 - If you would like to ask Chris a question you can use the Chat feature and type your question. All questions will be screened by the moderator (Eric) and may or may not be asked. WE WILL NOT BE ACCEPTING VOICE QUESTIONS FROM PARTICIPANTS AS YOUR MICROPHONE WILL BE TURNED OFF.
16. Good Luck and enjoy the meeting.

Louis E. Lemarié

Thursday, November 19th Zoom Meeting

11:45 AM

Reservations: Carol St. Germain
504-267-3466

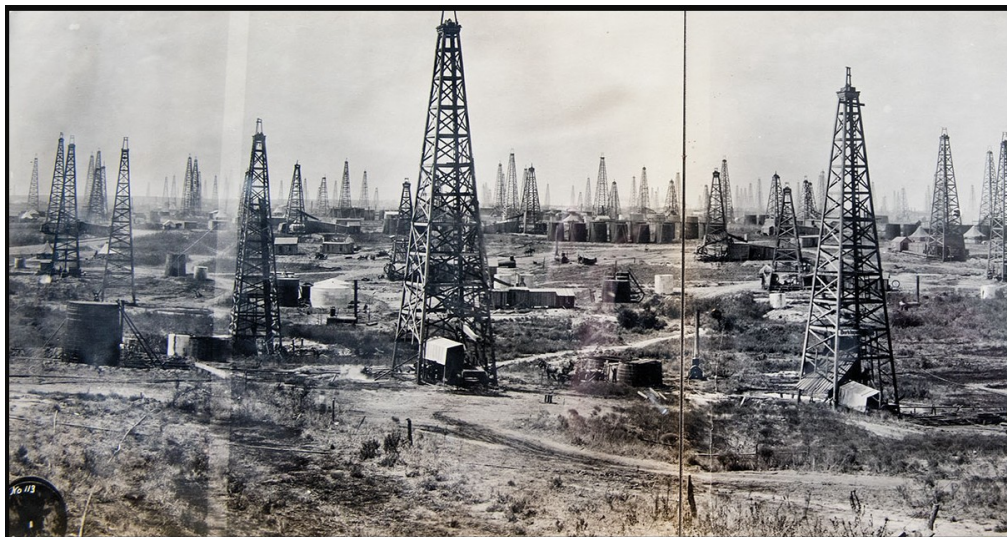
James D. (Jamie) Robertson is a partner in Salt Creek Petroleum LLC, an independent oil and gas company active in exploration and production in onshore Texas. Prior to becoming an independent, he worked for Atlantic Richfield Company (ARCO) for 25 years, retiring as exploration vice president of ARCO's international division when ARCO merged with BP plc in the year 2000. He is a past president (1994-95) and honorary member of the Society of Exploration Geophysicists, a three-time winner of best paper awards in SEG journals and annual meetings, a founding member and past chair of the Fort Worth Chapter of SIPES and a licensed professional geoscientist in the state of Texas. Jamie received a B.S.E. in geological engineering from Princeton University and a Ph.D. in geophysics from the University of Wisconsin.

Abstract

Climate is constantly changing at many time scales from millions of years to decades. The drivers range from the long-term impacts of plate tectonics and orbital oscillations to the shorter-term impacts of solar radiation and volcanic activity. Many diverse datasets converge to show that earth's climate is currently warming; average global surface air temperature on land, for example, is 3.0 F warmer presently than in the late 1800s. Direct measurements also show that greenhouse gas concentrations in the atmosphere have increased in recent time; carbon dioxide (CO₂) concentration, for example, is more than 35% higher presently than in the late 1800s. There are no significant natural sources of this rise in CO₂. The sources virtually all relate to human activity: electric power plants, transportation, cement plants, residential and commercial heating, agriculture and landfills. Is this rise in CO₂ the probable cause of the current climate warming? (see next page)

(Continued from Page 1)

Multiple lines of evidence suggest yes: (1) the greenhouse effect is established science; (2) directly measured heat exchange at various levels in the atmosphere demonstrates increasing net warming over time consistent with an increasing greenhouse effect; (3) the troposphere is heating while the stratosphere is cooling consistent with an increasing greenhouse effect (if solar radiation was the cause, both would be heating); (4) nights are warming faster than days and winters warming faster than summers, also a fingerprint of a greenhouse cause rather than a solar radiation cause; and (5) climate simulation models as they improve are supporting the CO₂ to climate warming link. Hypotheses that climate warming over the past century is all natural (caused by solar radiation changes, volcanic activity, jet stream and ocean current fluctuations and the like) are not supported by scientific data, though these natural drivers do have discernible impacts over short time spans





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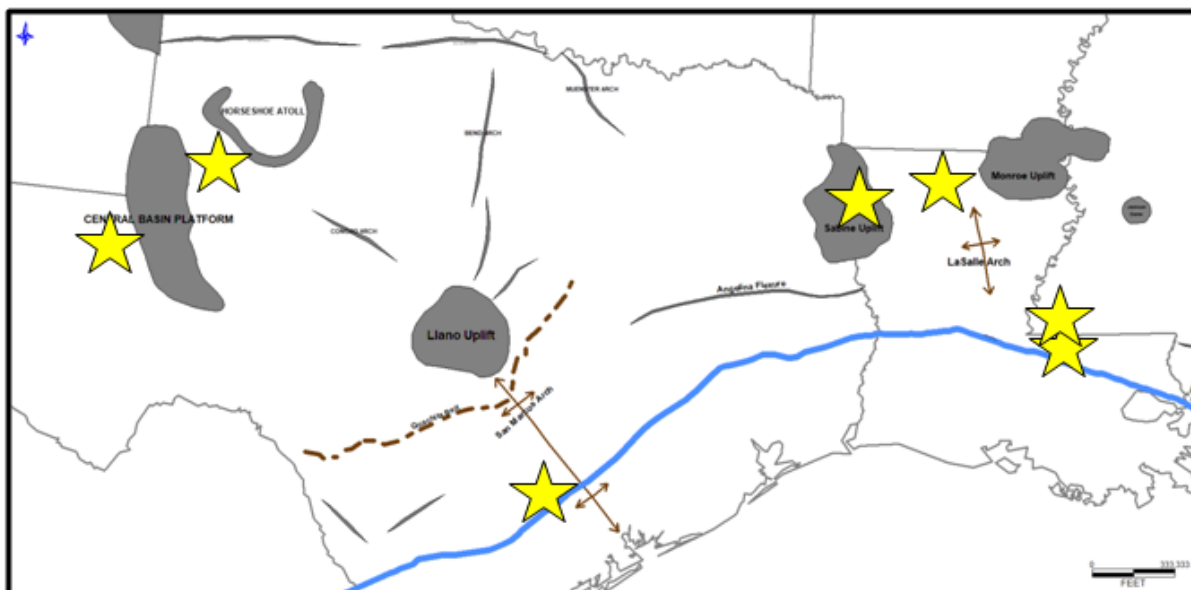
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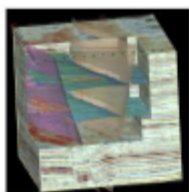
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1/2-page	\$250 per session
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