Energy Career and Leadership Webinar Series – Spring 2024

Fall in Love with the Problem - Lessons in Moonshot Taking, Climate and Entrepreneurship











#### **Alan Rossiter**

Executive Director, External Relations & Educational Program Development *UH Energy, University of Houston* 

#### **Confirmed Presenters**



**Rey Banatao, Ph.D.** Director / Project Lead, X (formerly Google X) <u>Presentation Topic:</u> Fall in Love with the Problem - Lessons in Moonshot Taking, Climate and Entrepreneurship

Don Victory. Founder and Chair of Energy Mentors; previously Upstream Chief Process Engineer at ExxonMobil

Presentation Topic: Defeating Career Anxiety



Dates: Fridays February 9 - March 29, 2024 (excluding March 8 & 15) Time: 10am - 11am Location: Webinar Series



Sharon Nolen. Eastman Fellow; leader of Eastman's Global Natural Resource Management program.

<u>Presentation Topic:</u> From Raising Cows to Removing Carbon: A Personal Sustainability Journey

Jane Stricker. SVP and Executive Director, Houston Energy Transition Initiative (HETI), The Greater Houston Partnership. <u>Presentation Topic:</u> Navigating a Successful Career in a Changing



**Sindhu Balan.** Investment principal, Chevron Technology Ventures (CTV).

<u>Presentation Topic:</u> Many Routes to a Career Destination



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Additional Presenters to be announced soon.

# Notes for Certificate Candidates

Open to students enrolled students at institutions of higher education Registration must include institution & student ID

- 1. Use your unique, personal Zoom link for the webinars.
- 2. Complete each test by 11:59 pm the Thursday after the webinar. Passing grade: 80%

#### Instructions for tests

You were sent an invitation for Canvas: UH Online & Special Programs – Canvas Notifications <u>notifications@instructure.com</u>

Use this to activate your Canvas account\*\*.

Quizzes and other course materials are in Canvas.

Each quiz becomes available at the end of its webinar.

# Notes on Canvas\*\*

UH has two Canvas Systems:

- 1. College Credit courses (towards a degree): <u>https://canvas.uh.edu</u>
  - Cougarnet credentials and Duo for two-factor authentication
- Continuing Education: <u>https://uhcontinuningstudies.instructure.com</u> (Used for Certificate in Energy Leadership)
  - Email address for login the address you receive your course invitation from. Create your own password.

The two systems are <u>completely separate</u>. They may have different passwords, even if they use the same email address.

### Please stay muted with video off. Submit your questions for our guest speaker during the live Q&A using the chat function in Zoom



# **Today's Moderator**

# Sai Gudapati

Chair | UH Energy Coalition Compliance Intern | BW Energy





# **Upcoming Events**

- Networking Event with Energy
- Career Readiness Sessions
- Crawfish Boil
- Hydrogen Symposium
- Banquet





#### Rey Banatao, PhD Director / Project Lead, *X (formerly Google X)*

*CoFounder,* Entropy Resins *CoFounder,* Connora Technologies



#### Nuclear Power Plant San Onofre, CA

# INSPIRATION

Chevron Refinery Manhattan Beach, CA





# TECHNOLOGY



# **Thermoset Composites**

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RUJSUS

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#### THE IMPACT

Manufacturing one gallon of Entropy Resins Epoxy with Super Sap technology in the Americas saves over the industry average:

#### 146,993 TREES SAVED FROM BEING CLEAR CUT

A well-matured forest has on average, 180 trees per acre and we were able to save almost 415 acres of forest through our sustainable practices, a vital environment we will continue to work to protect!

#### 11,036 PROPANE CYLINDERS (FOR A BACKYARD BBO) OF SAVED EMMISSIONS

We saved the equivalent emissions of over 7,000 tanks of propane, one of the fossil fuels that contributes to the accumulation of greenhouse gases in our atmosphere.

#### 194,906,371 SMARTPHONE CHARGES OF SAVED ENERGY

We were able are able to limit our energy consumption by a considerable amount! This in turn saves the oil and other fossil fuels that

#### our electricity is powered by.

#### 12,303,631 SERVINGS OF WATER

Water is one of our most precious resources that is easily overlooked in the production process. We made sure that it's addressed and that we limit our waste water production. \*9,415,437 500ml Bottles

#### 1,562,264 MILES\* DRIVEN OF SAVED EMISSIONS

This is in relation to the amount of CO2 saved, and equates to nearly 30 trips around Earth's circumference, driven in a car, of saved emissions!

\*1,968,187 km

1,241 BARRELS OF OIL SAVED Oil has one of the highest pollutant potentials for water contamination, its extraction also threatens our arctic regions, and we were able to circumvent 31,416 Gallons of oil in our

supply chair









POR SIEMPRE















# **CONNORA** MATERIALS REIMAGINED//

# **World's First Recyclable Wind Blade**







#### Siemens Gamesa claims first recyclable wind turbine blade

Use of new resin has potential to keep hundreds of thousands out of landfill

#### (Made with Recyclamine®)



Old windblade fragments in Wyoming landfill





**SIEMENS** Gamesa

RENEWABLE ENERGY

# **MAKE THINGS BETTER**





#### Manila, Philippines



San Francisco, CA

### Invent and launch moonshots that make the world a radically better place



#### Climate and Sustainability

X has been working in the climate space for more than ten years and over the past five years X has been steadily increasing focus on this critical space.

More than half of X moonshots have the chance to meaningfully help with mitigating or adapting to climate change.



# X'S BLUEPRINT FOR MOONSHOTS



- 5 principles for moonshot thinking
- **1.10X** not 10%
- 2.Work on the hardest thing first
- 3.Make contact with the real world
- 4.Fall in love with the problem
- 5.Embrace failure learning



# Plastic waste is an economic, environmental, and justice problem

# 321 MMT Plastic landfilled per year.

# **1.9 GT**<sub>CO2e</sub>

# \$100 B

Global cost of plastic pollution to environment and human health per

**Year.** Sources: OECD, Merkel A & Charles D (2022)



Plastic recycling value chains are fragmented, resulting in the predominant disposal through incineration and landfills

# **THANK YOU!**

