

# HE News You Can Use!

Week of March 22nd

## HE Program News

### Gold Nuggets Interview: Dr. Paul Santi

March 24, 5:00 P.M.



## Gold Nuggets

An Interview Series of  
Humanitarian Engineering Insights



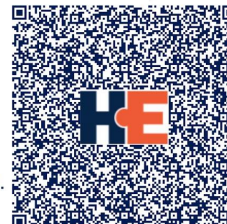
Paul Santi is a Professor of Geological Engineering at the Colorado School of Mines, where he has been on faculty for over 19 years. Previously, he taught for 6 years at the Missouri University of Science and Technology, and worked for 6 years as an engineering consultant in San Francisco and Denver. His recent research has focused on analysis, prediction and mitigation design for debris flows, landslide dewatering and analysis, engineering geology pedagogy, and general geologic hazard analysis. He holds a Bachelor's degree in Geology and Physics from Duke University, an MS in Geology from Texas A&M, and a PhD in Geological engineering from the Colorado School of Mines. He is a Fellow of the Geological Society of America, he has been the President of the Association of Environmental and Engineering Geologists. He is currently the director of the Center for Mining Sustainability, which manages multiple research projects with a partner university in Peru.

When: March 24, 5:00 PM MST  
ZOOM meeting ID: 961 6402 6507

Password: 508838

If you are interested in participating in our live interview series, use the zoom link (or QR code!), our HE canvas page, or keep an eye out for our daily blast message coming soon.

Zoom QR  
Code!



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## Lectures/Workshops

### **Paulo Freire Centennial - 7 Talks in Preparation for the next 100 years**

**March 9 - 24**

**Zoom - Registration Required**

Large creative initiatives to tackle complex problems depend on daring to think long term. The unpredictability of the future, challenged by pandemics, climate change, social and political instabilities, on the top of longstanding and increasing regimes of inequalities across the globe, suggests that we need to build and strengthen human capacities that go beyond reaching efficiency. Dealing with threats requires resilience and solidarity.

This cycle celebrates the centennial of the birth of Brazilian educator, Paulo Freire (1921-1997), and, inspired by his works, invites radical thinking and political imagination. Freire's 'ontological call' is associated with five principles, those of humility, empathy, love, hope and dialogue (Freire, 2017, p. 33), which he presented as the spirit of one of his main referential works, *Pedagogy of the Oppressed*, originally published in 1968. These principles were developed by Freire in different degrees and forms throughout his works, and they also served as inspiration for many thinkers and practitioners all over the world. Can they serve as seminal inspiration for creatively devising the next 100 years?

Recognizing Freire's strong influence upon participatory communication and civil society development in Brazil and beyond, this cycle includes two Plenaries and five Global Exchanges. We are also inviting local groups (research centres, faculties, networks of practitioners, etc.) to engage in organizing Local Exchanges to unfold the Global Dialogues in relation to their contexts.

For more information and to sign up, visit

<https://www.paulofreirecentennial.org/principal-in/>. (Note that these conversations begin at 6 AM MT, but would be worth waking up for!)



## **Science of Healthy Life and Healthy Planet**

**March 24, 7 AM MDT**

**Zoom**

It is abundantly clear to humanity that the mitigation of COVID19 pandemic is multifaceted. This experience also led us to glean a few aspects beyond doubt which include a) nobody is safe until everyone is safe, b) mental health is not given and to be cultivated, and c) care for Earth to ensure the sustainability of life! Since the industrial revolution, the science & technology enabled mass-production and supply of exceptional range of goods and services have reached billions of people around the world. Moving forward all products and services need to be reimaged for the health of planet Earth and its systems & beings, which includes humans. There is tremendous scope and opportunities for new science and technology of atoms and molecules, materials, products, services, and economic models. Mind-inspired technologies and solutions are the new frontiers of innovations, and they will change human living as seen and experienced never before. Mind your mind to achieve, contribute, healthy and happy! This lecture details how we can leverage science to realize a healthy mind, body and planet Earth. Also delves into the deeper science of life, and provides a glimpse of far-sighted science to be expected in the coming decades.

Webinar March 24, 7 AM MDT

Register here: <https://register.gotowebinar.com/register/3735526297890220046>



## **Opportunities**

### **Seniors: Distinction for Leadership in Humanitarian Engineering - Apply Today!**

**Due April 6th, 2021**

For the first time this year, at graduation we will be able to recognize graduates who have demonstrated leadership in Humanitarian Engineering (as distinct from enrollment in the minor)! To be designated at graduation as a graduate with Distinction for Leadership in Humanitarian Engineering, you can follow one of three routes:

- A) Be a Shultz Scholar OR
- B) Complete one of the HE minors OR
- C) Complete three HE courses (as listed in the form below)

AND

- Show evidence of demonstrated of significant personal leadership in HE activities (as reflected in your personal statement)
- Get a brief written recommendation from a faculty member attesting to your leadership in HE
- Write a personal statement following the prompt below.

Personal Statement Prompt: Describe your understanding of humanitarian engineering, how you personally have provided leadership in advancing HE at Mines, and how you hope to align the values and principles you have learned in HE into your planned career path.

To Apply: Complete the form found at

<https://forms.office.com/Pages/ResponsePage.aspx?id=4AlymbMJI0aaTXavpEpnXE8p8eqwJwxKmHfkLrs34IpUOFBQNFM0TIhBREE4Wk5RQ0pLTetMSE1RUy4u> by April 6, 2021. The Humanitarian Engineering Leadership Team will recommend students for designation as a graduate with Distinction for Leadership in Humanitarian Engineering based on their review of the applications.



## **Getting to Zero Next Gen Professional Development Opportunity**

**April 1st**

NBI is excited to launch Getting to Zero Next Gen, a professional development program for undergraduate students pursuing zero energy and carbon neutral performance in buildings. Students will meet as a cohort to learn about ultra-efficient building design, renewable energy resources, building-grid integration and more. They will also receive mentorship, resume building opportunities, and networking connections throughout the program. Students will also be invited to attend the Getting to Zero Forum in New York this Fall.

Getting to Zero Next Gen is free to students and is open to all, but students of color will be prioritized in the application process. Applications open in April.

For more information, visit <https://gettingtozeroforum.org/next-gen-application/>

## **GLI Global Scholars Fellowship Program**

The Global Livingston Institute (GLI) is holding its first Global Scholars Fellowship Program (GSFP) of 2021 between March 1 - April 2, 2021, and is looking to get a few more students to fill up its Spring cohort!

GSFP is a 5-week interactive online classroom & research experience geared towards both undergraduate & graduate students across all disciplines. The program features weekly lecture series and discussions with key community development leaders from the US & East Africa; involvement in collaborative research projects focused on several community development sectors; and remote mentoring/advisory support from the GLI team!

Interested students can apply via the GSFP Website Page <https://www.globallivingston.org/program/gsfps> or via this direct Application Link GLI Global Scholars Fellowship Program (GSFP) - Application Enrollment is open for up to 50 spots in each cohort, and our 2021 cohort dates are listed below alongside application deadlines.

### **2021 GSFP Cohort Schedule**

Cohort 4 | March 1 - April 2, 2021 (Deadline still open!)

Cohort 5 | May 24 - June 25, 2021 (App Deadline: Apr 23)

Cohort 6 | July 12 - August 13, 2021 (App Deadline: Jun 11)

Cohort 7 | October 4 - November 5, 2021 (App Deadline: Sep 3)



*Engineering as it should be.*

Program enrollment is \$750 per student, which includes all lectures, curriculum, mentoring & all additional support to students related to the program.

For additional information or questions, please email GLI at [gsfp@globallivingston.org](mailto:gsfp@globallivingston.org) or visit GLI's website at [www.globallivingston.org](http://www.globallivingston.org)

## **Thinkers Lodge Summit on Nuclear and Climate Crises**

In partnership with the Centre for Local Prosperity ([centreforlocalprosperity.ca](http://centreforlocalprosperity.ca)), Thinkers Lodge is inviting requisite stakeholders and collaborating partners to a 4 1/2 day global summit from September 29 to October 3, 2021 – Thinkers Lodge Summit on Nuclear and Climate Crises. We are gathering 30 to 35 leading global voices and thought leaders on nuclear non-proliferation and effective adaptive responses to the climate crisis. Invitees will represent an inclusive mix of ages, gender, background and experience with these issues. This summit will be focused on awareness building, advocacy and multi-level means for change.

For more information see flyer and if interested in attending contact:  
[nguizzetti@mymail.mines.edu](mailto:nguizzetti@mymail.mines.edu)





CENTRE FOR LOCAL PROSPERITY  
www.centreforlocalprosperity.ca



## Thinkers Lodge Summit on Nuclear and Climate Crises

Pugwash, Nova Scotia  
September 29 to October 3, 2021

Feb 8, 2021

### Summit Purpose and Description

In 1955, Albert Einstein and Bertrand Russell issued a manifesto calling for a halt to nuclear proliferation. It represented the siren call to action, and precipitated the 1957 Pugwash Conference, which acted as a catalyst for the ongoing Pugwash Movement. Thinkers Lodge National Historic Site ([thinkerslodge.org](http://thinkerslodge.org)), Pugwash, Nova Scotia, Canada remains as the site of this original conference and holds Joseph Rotblat's 1995 Nobel Peace Prize that he shared with the Pugwash Conference on Science and World Affairs ([pugwash.org](http://pugwash.org)) for work to end nuclear proliferation.

Today, Thinkers Lodge continues to act as a centre for deep and brave conversations about these existential threats. Since 2017, focused retreats of invited Thinkers have gathered there to inspire others on paths forward for humanity's role in the climate crisis and our relationship to our planetary home. It is now time for a larger and broader summit to grapple with and resolve the compounded complexities of the double existential crises that we face today.

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### Nuclear and Climate Crises – Mutual Learning

It is a rare occasion when both of these crises are discussed as a whole in a focused container, yet the two are inextricably linked. For example, the Bulletin of the Atomic Scientists now counts the climate crisis and nuclear weapons as two existential threats to the future of the planet, both feeding into the Doomsday Clock. Both need to be addressed to move us back from the brink of disaster, which stands at 100 seconds to midnight. As the climate crisis exacerbates poverty, water shortage, hunger, migration and conflict - all of which are destabilising the world - conditions are created where conflict thrives and nuclear weapons use becomes more likely.

Workers in each crisis area can inform the other on lessons learned for best practices. This mutual learning process will be a focus of the retreat agenda. The agenda is also intended to include interaction with the media, public and youth.

## Summit Timing

The timing for this summit in fall 2021 will have optimal impact. The new US Administration and their early nuclear and climate policies will have become defined, the status of international nuclear agreements will be more clear, the world will have experienced additional seasons of climate changes, and the COP26 Glasgow Summit will be occurring in November. These all represent new opportunities for impact.

As in 1957, critical world affairs will be again played out in a small town in Nova Scotia. Yet, these discussions will be communicated to the world. This summit represents an act of courage and compassion for those that will attend, with the understanding that another 21<sup>st</sup> Century manifesto – a joint action plan – may again act as a catalyst for our future direction. Time is short and our very existence is at stake.

## COVID-19 Planning

There are several optional meeting formats and budgets being planned simultaneously. 'Plan A' assumes an in-person gathering of 30-35 stakeholders. Due to the status of the COVID pandemic at that time, alternative formats include a quasi-virtual ('Plan B') or fully virtual retreat ('Plan C'). A quasi-virtual retreat will see a significantly reduced number of in-person attendees following strict travel and on-site safety protocols, with Zoom and other connectivity for the other invitees. Alternatively, if the pandemic related safety issues are severe at that time, the gathering will be entirely virtual, but may also include individual filmed interviews for key Thinkers at their locations. All three formats will include interactive virtual venues for the global public.

## Organizers and Collaborators

The project's lead organization is the **Pugwash Park Commissioners**, who manages the Thinkers Lodge. Established in 1929 for the purpose of convening meetings on issues of global importance, they are one of the oldest charitable organizations in Canada. Project management will be conducted by the **Centre for Local Prosperity**, Nova Scotia. Since 2017, the Lodge and the Centre have worked closely bringing an international and regional mix of Thinkers to the Lodge for climate crisis discussions. Collaborating partner organizations for this summit include **International Student/Young Pugwash** (ISYP) and **Student Pugwash USA** (SPUSA). Our partnership with these organizations emphasizes the importance of multi-generational attendance and input into the formation of summit outcomes.

## Intended Outcomes

Similar to the 1955 Einstein-Russell Manifesto, the summit represents an opportunity to produce a collective statement and declaration by nuclear and climate experts on these two existential threats facing our very existence. Rarely are these two issues brought together with potency and a common voice. The summit will be designed to influence and pressure nation state policies, especially Canada and USA, but also it will raise advocacy with other levels of governments, including states and provinces, and municipalities to declare nuclear free and climate readiness zones. Perhaps most importantly, this summit is designed to raise awareness among general populations and community groups to advocate for de-risking our future related to both issues.



**Invitations**

Event organizers are currently inviting 30-35 stakeholders into the full 4-½ day retreat process, providing a container for deep and brave conversation. Additionally, organizers are generating contact lists of individuals, organizations and institutions who are interested in participating in the public on-line portions of the Summit.

**For more information, contact:**

Robert Cervelli, Executive Director, Centre for Local Prosperity  
[robert@centreforlocalprosperity.ca](mailto:robert@centreforlocalprosperity.ca), 902-222-4391  
[www.centreforlocalprosperity.ca](http://www.centreforlocalprosperity.ca)

**Supporting Organizations include:**