



## First Announcement: Save the Date

The 4<sup>th</sup> International Conference on New Horizons in Green Civil Engineering (NHICE-04) aims to be the melting pot of innovative ideas, frontline technologies, and state-of-the-art industrial applications to address local and/or global Civil Engineering infrastructure and construction challenges of the current and future generations.

NHICE-04 will be an **in-person event** in Victoria, British Columbia, Canada; **Monday, August 26 – Wednesday, August 28, 2024.**

NHICE-04 will focus on new challenges, ideas, solutions, and applications in sustainable and resilient Civil Engineering. While submissions in all areas of Civil Engineering are welcome, priority will be given to issues related to:

- Green design, construction materials, technologies and buildings
- Carbon footprint reduction and management in the built environment
- Enhanced use of wood in building construction
- Indigenous housing challenges/solutions and technologies
- Impacts of climate change and resiliency of infrastructure and buildings
- Recent advances in smart buildings, intelligent structures, sustainable cities, industrial ecology, environmental engineering, ground engineering and water resources
- Latest developments and challenges in codes, policies, regulations, practices and test methods
- Use of advanced tools and technologies (e.g. artificial intelligence, machine learning, systems modelling, digital twins, 3-D printing, remote sensing, UAV etc.) for sustainable construction and resilient infrastructure management
- Post-pandemic built-environments
- Nature-based solutions and regenerative design: Application for buildings
- Nature-based solutions and regenerative design: Regional applications
- Inclusive people-oriented design (e.g. accessibility) and indoor environmental quality
- Community-oriented design solutions
- Application of design thinking in Civil Engineering

The core theme of the conference is Civil Engineering, but multidisciplinary research activities that demonstrate the potential to solve infrastructure and building challenges are welcome.

New engineers as well as established professionals, researchers, academics, and policymakers are the target participants and audiences.

NHICE-04 is being organized by the University of Victoria (UVic, [www.uvic.ca](http://www.uvic.ca)) with support from BC Housing ([www.bchousing.org](http://www.bchousing.org)).

UVic research is at the forefront of sustainability breakthroughs for our changing world, being a global leader in climate and ocean sciences, and sustainable energy research.

Technical research carried out by BC Housing leads to innovations that improve how residential buildings are designed and constructed and offer insights into sustainable housing solutions and best practices.

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Regular updates: <http://nhice.engr.uvic.ca>