

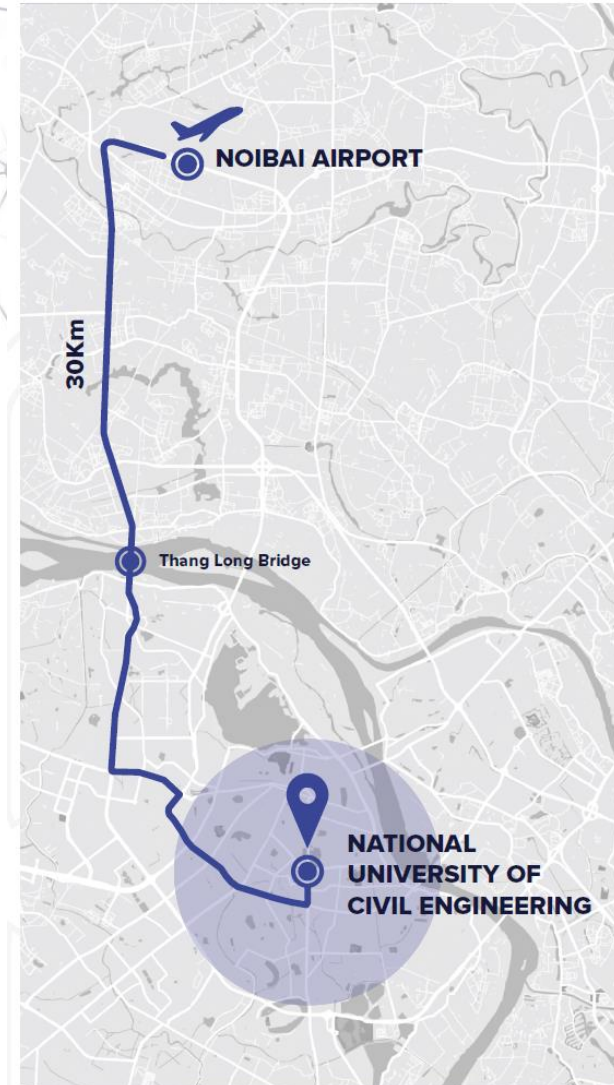


# National University of Civil Engineering

78TH RILEM WEEK 2024, HANOI, VIETNAM

RILEM SPRING  
MEETING  
APRIL 2021

- Organizer contact: A/Prof. Nguyen Van Tuan, tuannv@nuce.edu.vn
- RILEM member number: 9381





RILEM SPRING  
MEETING  
APRIL 2021

# RILEM annual week candidacy



## National University of Civil Engineering - **NUCE**

- Founded in 1966
- Academic programs of 24 majors for undergraduates and 17-19 majors for graduates
- 60,000 engineers and architects; over 4500 Masters, 170 PhDs of various fields in construction
- NUCE strongly supports the missions of RILEM.

## Hanoi, Vietnam

- A cultural and political center with more than 1,000 years of history of Vietnam, also known as the City for Peace
- Safe and beautiful city for organizing important national and international events.
- Successfully handled the coronavirus pandemic



### Vision

The National University of Civil Engineering will be nationally recognized as the leading university in the field of construction and towards regional and international standards by the year of 2030.



*CDSD2020- Construction Digitalisation for Sustainable Development: Transformation through Innovation*



# Host



**RILEM SPRING  
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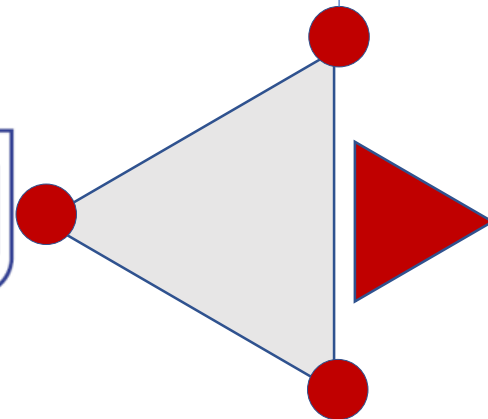
**Vietnam  
Institute for  
Building  
Materials -  
VIBM**



**National  
University  
of Civil  
Engineering  
- NUCE**



**Vietnam  
Concrete  
Association  
- VCA**



**RILEM WEEK  
SEP 2024**



# Venue

## Food Service

University's Canteen: Located in the courtyard of the H2 building. Drinks, snacks and light foods are provided. All the meals of events will be prepared and served according to the order of the Organization Committee including:

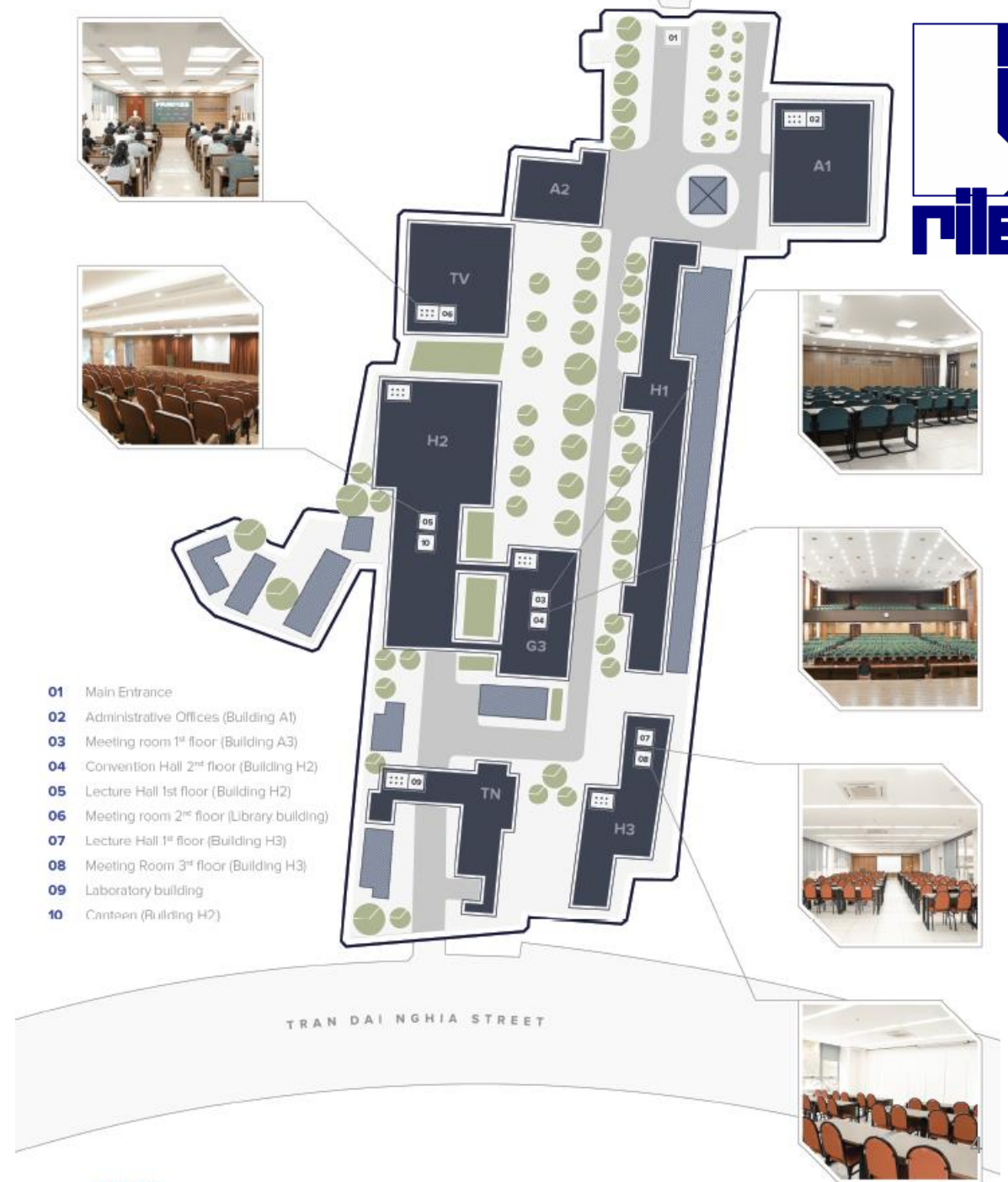
- Coffee breaks (water, coffee, tea and snacks)
- Lunch
- Gala Dinner (if required)

## Wifi Access

Complimentary Wi-Fi is being provided to all participants.



**RILEM SPRING  
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- 01 Main Entrance
- 02 Administrative Offices (Building A1)
- 03 Meeting room 1<sup>st</sup> floor (Building A3)
- 04 Convention Hall 2<sup>nd</sup> floor (Building H2)
- 05 Lecture Hall 1<sup>st</sup> floor (Building H2)
- 06 Meeting room 2<sup>nd</sup> floor (Library building)
- 07 Lecture Hall 1<sup>st</sup> floor (Building H3)
- 08 Meeting Room 3<sup>rd</sup> floor (Building H3)
- 09 Laboratory building
- 10 Canteen (Building H2)



# Tourism attraction



*Temple of Literature*



*Thang Long Citadel*



*St. Joseph's Cathedral, Hanoi*



*National Museum of Vietnamese History*



*Hoan Kiem Lake*

## The historical city

Hanoi, the capital of Vietnam, is one of the most ancient cities in the world. This place offers examples of both contemporary and classical architecture right in the city center. A renowned destination for typical cuisine, home to fascinating attractions and hospitable people, and a diverse region with a combination of multi-communities.

There is plenty to enjoy in Hanoi, from mouthwatering street food to fascinating history, from traditional entertainment to recreational activities.

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*Sapa, Lao Cai*  
Distance from Hanoi : 320km, 5 hour drive, 2 day trip

### Outside Hanoi city

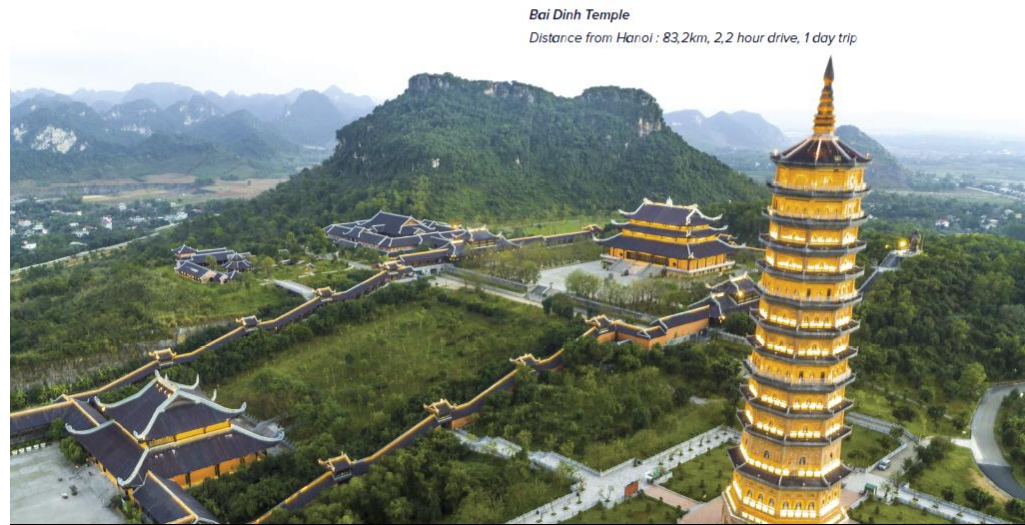
Beside the famous attractions in the city, there are so much more for you to discover outside Hanoi within only one or two days. Here's a list of best places to visit around Hanoi.



*Ninh Binh Province*  
Distance from Hanoi : 106km, 1,5 hours,  
1 day trip



*Halong bay- a UNESCO World Heritage Site in 1994*  
Distance from Hanoi : 170km, 3,0 hours, 1 day trip



*Bai Dinh Temple*  
Distance from Hanoi : 83,2km, 2,2 hour drive, 1 day trip

## Travel to Financial proposal (Bid): registration fee

Conference fee includes proceedings, lunches, reception, dinner

	Early-bird registration	Late
<b>Total areas</b>		
RILEM member	300 Euro	350 Euro
Non-RILEM member	350 Euro	400 Euro
Student	250 Euro	300 Euro



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# Technical day visit



## Strengthening Thang long bridge by applying Ultra-High Performance Concrete

In 2020 the bridge is strengthened with a hybrid reinforced **UHPC** overlay connected to the existing steel deck with shear studs. Direct costs US\$ 11.600.000.



Thang Long bridge (1974-1983) across the Red River in Nam Thang Long Highway with a length of 3.250 m, the road linking Noi Bai International Airport to Hanoi city, capital of Vietnam. Bridge is considered to be the century of the Vietnam- Soviet friendship.



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# Proposed theme



## Background

This conference aims to gather the current state-of-the-art and new developments on the relevant topics in the research field of the sustainable performance of eco-materials and structures to deal with environmental issues such as reduction of green-house effect, recycling of waste materials, design for abnormal actions due to climate changes, etc. Therefore, we expect contributions from interdisciplinary, multiscale, and different approaches. The conference welcomes all ideas on various topics from young researchers as well as leading experts in the form of experimental or modelling issues, and case studies to demonstrate sustainable performance of eco-materials and structures.

## Topics

- ▲ Eco-friendly building materials, i.e., cementitious materials, ceramic, glass, composite, paints
- ▲ High-performance cement-based materials and other innovative building materials.
- ▲ Special concretes (self-healing concrete, self-leaching concrete, recycled aggregate concrete)
- ▲ Supplementary cementitious materials
- ▲ Repair and Maintenance
- ▲ Alkali-activated materials
- ▲ Creep and shrinkage
- ▲ Durability and Service life prediction
- ▲ Microstructural and large-scale modelling
- ▲ Service life design
- ▲ Life cycle assessment