

WORLD SEISMIC RESILIENT STRUCTURES SUMMIT

4th – 5th December 2024
Shinagawa Prince Hotel, Tokyo, Japan



WORLD SEISMIC RESILIENT STRUCTURE SUMMIT

4th - 5th December 2024 | Shinagawa Prince Hotel, Tokyo, Japan

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"It is not the strongest of the species that survive, nor the most intelligent, but the one most responsive to change." - Charles Darwin

EVENT OVERVIEW

On January 1, 2024, Japan was hit by a magnitude 7.6 earthquake, causing USD 17.6 billion in infrastructure damage. This event highlights the critical need for seismic-resilient construction. Advanced engineering practices, such as base isolation and reinforced structural components, can significantly enhance building stability during earthquakes. This is exemplified by Taiwan's tallest skyscraper, Taipei 101 which recently withstood a powerful 7.4-magnitude earthquake with minimal damage, showcasing the effectiveness of its innovative design. Acumen Research and Consulting has stated that the global seismic reinforcement materials market revenue is projected to increase by USD 46.1 billion by 2032, encouraging companies to continue investing in research and development to introduce advanced materials and techniques. Such advancements not only enhance seismic resilience in construction projects worldwide but also play a crucial role in safeguarding lives and assets against future seismic events.

Despite residing in a seismically active region, Japan's strict adherence to building codes has led to the creation of some of the world's most robust seismic-resistant structures. Contrastingly, at least 75,000 buildings in the affected earthquake zone in Turkey were found to have received construction amnesties, culminating in the Urbanization Ministry estimating that at least 84,700 buildings collapsed or suffered severe damage after the quake in February 2023. The magnitude of such destruction underscores the significance of employing efficient and ethical construction techniques in seismic-prone areas.

Seismic-proof construction isn't just a mandatory requirement; it ensures the safety of occupants, mitigates financial risks, and bolsters the overall resilience of communities in seismic-prone areas. Join us at the **World Seismic Resilient Structures Summit** hosted by **Trueventus** to gain insights on top-notch case studies and projects presented by world renowned industry experts. Seize the opportunity to connect and network within the seismic engineering circle on a global platform, ensuring your position at the forefront of this ever-evolving landscape. Join us in shaping the future of seismic-resilient structures.

WHY YOU CANNOT MISS THIS EVENT

- Gain profound insights of building codes and regulatory frameworks, crafted to enforce adherence to the highest seismic engineering standards.
- Navigate the intricate landscape of safety considerations during seismic activity, while contemplating the enduring durability of structures over the long term.
- Grasp the nuanced understanding of the financial landscape, empowering builders to make discerning decisions that safeguard their investments and fortify the economic foundation of their projects.
- Embark on an exploration of cutting-edge technologies and methodologies in seismic engineering, seamlessly integrating them into construction practices to elevate the seismic resistance of structures to unprecedented levels.

WHO SHOULD ATTEND?

This event is targeted but not limited to:

- CEOs, CFOs, & COOs
- Chief Construction Officers
- Project Directors
- VPs/ Directors/ Heads/ General

Managers/ Managers of:

- o Construction
- o City Planning
- o Architecture
- o Property Management
- o Civil Engineering
- o Project Engineering
- o Property Development
- o Infrastructure
- o Seismic/ Structural
- o Geospatial
- o Infrastructure
- o Drafting Design
- o Procurement

From the following industries:

- Government Entities
- Construction Companies
- Real Estate Developers/ Investors
- Contractors
- Building Service Providers
- Technology Solution Providers
- Design & Architecture Firms
- Construction Project Management Firms

FOR FURTHER DETAILS, CONTACT

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FEATURING PRESENTATIONS AND CASE STUDIES BY DISTINGUISHED SPEAKERS



Dr. Eng. Lutfian R Daryono
Chief Engineer
NITTOC Construction, Japan



Dharma Mitra
Vice President Director
PT. Modernland Realty, Indonesia



Patrick Otellini
National Affordable Housing Director
Swinerton, United States



Benie Ferra Agusta
Chief Engineer Geotechnical Monitoring
Freeport Indonesia, Indonesia



Forrest Lanning, P.E., CPEng
Earthquake Response Liaison – Structural
Engineer
**Federal Emergency Management Agency
(FEMA), United States**



Gerry Murphy
Associate Director - Japan Country Manager
Wood Thilsted, Japan



Juliane Spaak
Technical Director of Structural
Engineering
Beca Ltd, New Zealand



Nelson Christopher Servida
Managing Partner
**S+S Engineering and
Associates, Philippines**



Leonardi Kawidjaja
Associate Principal
Arup, Indonesia



Rodolfo Chao Chua
Business Group Leader for Structures -
Design & Engineering
GHD, Philippines



Prof. Ir. Iswandi Imran
President of Indonesian Society of Civil
and Structural Engineers
Institut Teknologi Bandung, Indonesia



Abdel F. T. Toukan
VP, Director, Global Contracts,
Commercial, and Projects Delivery
BKCN Engineering Inc, Canada



Archeilia Dwianca
Technical Product Owner
Synspective Inc, Japan



Ryoji Otsu Ph.D
Chief Executive Officer
Chinougiyutsu Co.,Ltd, Japan



Yoshiharu SAITO
Chief Engineer
**Certified NPO Environment and Disaster
Prevention R&D, Japan**



Dr. Arun M Puthanpyrayil
Technical Director of Structural Dynamics
Beca Ltd, New Zealand

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Day One: Wednesday, 4th December 2024

0800 **Chairperson Welcome Address**

0850 **Opening Keynote Address**

0900 **Session One**

A cost-benefit analysis framework for City-scale Seismic upgrade of buildings

- A community-led approach to seismic policy and city-scale resilience.
- San Francisco's "Soft Story" residential retrofit program.
- San Francisco's Private School Earthquake Safety Program.

Patrick Otellini, National Affordable Housing Director
Swinerton, United States

0945 **Session Two: Joint Presentation**

MOODD: a new design approach for application of damping devices

- Developments in Structural control engineering was mainly necessitated due to the growing demand for minimizing damages during a seismic event.
- Coupling Performance Based Seismic Design (PBSD) with Structural control engineering provides a unique opportunity to create a more seismic resilient community.
- To demonstrate the efficiency of MOODD, application of this framework is illustrated through some of the recent multi-storey (>10 storeys) retrofits and new builds done in one of highly seismic regions of the world, Wellington, New Zealand

Dr. Arun M Puthanpyrayil, Technical Director of Structural Dynamics
Juliane Spaak, Technical Director of Structural Engineering
Beca Ltd, New Zealand

1030 **The Speed Networking - The Mad Minutes!**

Fun and fast, this networking activity is a great opportunity to grow your connections

1105 **Morning refreshments**

1130 **Session Three**

Considering Advanced Seismic Design Strategies for Irregular Structures

- Types of irregularities in structures and their effects in increasing seismic demand to the structures
- A simple and advanced approaches to deal with the effects of irregularities in seismic design
- The use of seismic devices to reduce the effects of irregularities in structures

Prof. Ir. Iswandi Imran., Ph.D., President of Indonesian Society of Civil and Structural Engineers
Institut Teknologi Bandung, Indonesia

1215 **Session Four**

Design and Detailing Requirements for A Resilient Steel Moment Frame Connections

- Seismic design concepts for Special Moment Frames (SMF)
- Seismic-resistant SMF connections
- Seismic-resilient SMF connections

Rodolfo A. Chua, Jr, Business Group Leader for Structures - Design & Engineering
GHD PTY LTD, Philippines

1300 **Networking Luncheon**

1400 **Session Five**

Techniques for designing seismic monitoring system to withstand seismic loading at deep mining infrastructure

- Seismic and underground monitoring system overview
- Implementation seismic re-entry protocol for mitigation seismic hazard impact to employee and mine infrastructure
- Underground mine ground support foundation to withstand seismic static and dynamic loading

Benie Ferra Augusta, Chief Engineer Geotechnical Monitoring
Freeport Indonesia, Indonesia

1445 **Session Six**

Seismic design approaches for offshore wind foundations – a comparison of Japanese and International practice

- Delivering safe but economic designs will play a major role in the successful adoption of offshore wind to help achieve Japan's renewable energy targets.
- The unique seismic and environmental conditions in Japan present a distinct challenge for the design of the foundation systems.
- An outline of the design approaches required in the current Japanese design guidance and current international practice for designing offshore wind turbines in seismically active zones

Gerry Murphy, Associate Director - Japan Country Manager
Wood Thilsted, Japan

1530 **Afternoon Refreshments**

1600 **Session Seven**

Possibility of Huge earthquake prediction by observing tree bio-electric potential, changes in the ionosphere using AM radio waves, and monitoring multiple frequency bands simultaneously

- Finally Huge earthquake prediction has become possible
- At least three observation methods are required
- Now is the time to start earthquake prediction activities

Yoshiharu SAITO, Chief Engineer

Certified NPO Environment and Disaster Prevention R&D, Japan

1645 **Session Eight**

Use of Robots in Japan from from Rescue to Recovery Operations in the Event of Earthquake

- Robots
- Remote control
- Disaster response

Ryoji Otsu Ph.D, Chief Executive Officer
Chinougijyutsu Co.,Ltd, Japan

1730 **End of Day One**

FOR FURTHER DETAILS, CONTACT

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Day Two: Thursday, 5th December 2024

0800 Registration & Coffee

0850 Chairperson Welcome Address

0900 Session One

Post-Earthquake Structural Assessment: Advancing Inspection and Assessment Practices for Earthquake-Surviving Buildings

- Why buildings need to be assessed shortly after an earthquake
- Get people back into their homes and businesses, if it's safe to do so. And get people out of the dangerous buildings.

• Consistency is key to earning the public's trust for post-earthquake building assessments

Forrest Lanning, P.E., CPEng, Earthquake Response Liaison – Structural Engineer

Federal Emergency Management Agency (FEMA), United States

0945 Session Two

Addressing Unique Challenges in Designing Tall Buildings to Resist Seismic Forces

- Performance-based seismic design
- Common seismic framing system
- Post-earthquake performances

Leonardi Kawidjaja, Associate Principal
Arup, Indonesia

1030 Morning Refreshments

1100 Session Three

Implementing shear walls to enhance lateral stiffness and resistance to seismic forces

- Drift Control (Rotation and translation)
- Comparison of different codes with application to Dual System.
- Combination of Moment Frames and walls (Lateral Forces Distribution)

Nelson Christopher Servida, Managing Partner
S+S Engineering and Associates, Philippines

1145 Session Four

Navigating Liability and Damage Claims in Induced Earthquakes: The Critical Role of Seismic Resilient Structures

- Understanding Induced Earthquakes
- Analysing Legal Framework and Liability
- Damage Claims and Compensation

Abdel F. T. Toukan, VP, Director, Global Contracts, Commercial, and Projects Delivery

BKCN Engineering Inc, Canada

1230 Networking Luncheon

1400 Session Five

Implementing modular construction techniques to enhance structural stability, and seismic resilience, particularly in regions prone to seismic activity along earthquake fault lines

- The importance of planning in building houses that can be done fast and strong enough to withstand earthquakes in areas vulnerable to seismic activities.
- Modular construction techniques to increase structural stability and earthquake resistance.
- Innovation in the implementation of modular construction techniques in earthquake prone areas, from simple residential houses to complex buildings.

Dharma Mitra Sigamani, Vice President Director
PT. Modernland Realty, Tbk, Indonesia

1445 Session Six

Integrating Geotechnical Principles into the Design and Construction of Seismic Resilient Structures

- Creating plans with local authorities for earthquakes, including safety measures and building code importance.
- Evaluating slopes' seismic risks, model failure mechanisms, set design standards for resilient reinforcement systems, preventing seismic disasters.
- Utilize tunnels, basements, and galleries for slope stability, distribute seismic loads, improve integrity, and monitor movement for long-term effectiveness.

Dr. Eng. Lutfian R Daryono, Chief Engineer
NITTOC Construction, Japan

1530 Afternoon Refreshments

1600 Session Seven

Utilizing SaaS Technologies for Post-Earthquake Damage Assessment by leveraging SAR Satellite Imagery

- Utilize SAR (Synthetic Aperture Radar) satellite imagery for real-time monitoring of earthquake-affected areas
- Employ SaaS (Software as a Service) platforms to analyze SAR data and assess the extent of damage caused by the earthquake
- Implement algorithms within SaaS solutions to automatically detect damaged structures and infrastructure from SAR imagery

Archeilia Dwianca, Technical Product Owner
Synspective Inc, Japan

1645 Session Eight

Performance Evaluation and Optimization of Seismic-Resistant Cladding Systems

- Evaluate various cladding materials such as concrete, steel, glass, or composite panels for their seismic resistance properties.
 - Conduct structural analysis to assess the performance of cladding systems under seismic loading conditions.
 - Optimize the design of connections between the cladding system and the building structure to enhance seismic resistance
- (Speaker to be advised)**

1730 End of Conference

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COMPANY DETAILS

Name	Industry
Address	
Postcode	Country
Tel	Fax

ATTENDEE DETAILS

1	Name	Job Title
	Tel	Email
2	Name	Job Title
	Tel	Email
3	Name	Job Title
	Tel	Email
4	Name	Job Title
	Tel	Email
5	Name	Job Title
	Tel	Email

APPROVAL

NB: Signatory must be authorised on behalf of contracting organisation.

Name	Job Title
Email	
Tel	Fax
Authorising Signature	

REGISTRATION FEES

	Corporate
End of September 2024	USD 1995 (Per Delegate)
End of October 2024	USD 2195 (Per Delegate)
1st November onwards 2024	USD 2495 (Per Delegate)
All options inclusive of delegate pack, luncheon and refreshments.	
JP – IF415	

PAYMENT METHODS

Payment is due in 5 working days. By Signing and returning this form, you are accepting our terms and conditions.

Bank Transfer

Credit Card

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Take a Snapshot or Scan and Email us

TERMS & CONDITIONS

- The course fee is inclusive of the event proceedings, materials, refreshment and lunch.
- Upon receipt of the complete registration form, invoice will be issued. Trueventus request that all payments be made within 5 working days of the invoice being issued. Full payment must be received prior to the event. Only delegates that have made full payment will be admitted to event. Clients are responsible for their own banking fees and banking fees will not be absorbed into the booking price.
- Substitution & cancellations policy. Should the registered delegate is unable to attend, a substitute delegate is welcome at no extra charge. Written notifications of all substitutions is required 5 working days prior to the event. Trueventus contracts carry 100% full liability upon receipt of registration. Non payment does not constitute cancellation. A 100% of cancellation fee will be charged under the terms outlined below: Due to limited event seats, Trueventus agrees to book and confirm the seat for the client upon issuance of invoice. Upon signing of this contract, client agrees that in case of dispute or cancellation of this contract Trueventus will not be for total contract value. If a client does not attend the event without written notification at least 5 working days prior to the event date, he/she will be deemed as no show. A no show at the event still constitutes that the client will have to pay the invoice amount that was issued to them. Trueventus does not provide refunds for cancellations. By signing this contract the client also agrees that if they cancel that Trueventus reserves the right to pursue monies owned via the use of local debt collection agency were the client is situated. Furthermore the client will be held liable for any costs incurred in collection of outstanding monies. When any cancellations are notified in writing to Trueventus 5 working days prior to the event, a credit voucher will be issued for use in future Trueventus events.
- Trueventus will at all times seek to ensure that all efforts are made to adhere to meet the advertised package, however we reserve the right to postpone, cancel or move a venue without penalty or refunds. Trueventus is not liable for any losses or damages as a result of substitution, alteration, postponement or cancellation of speakers and / or topics and / or venue and / or the event dates. If force majeure were to occur Trueventus accepts no responsibility or liability for any loss or damage caused by events beyond their control, including, but not restricted to strikes, war, civil unrest, flight delays, fire flood, or any adverse weather conditions. Trueventus is not liable in the event that a participant is exposed or is infected by Covid 19. Trueventus under no circumstances is liable for any other costs that might have been incurred in the attendance of the event, including but not limited to flights, accommodation, transfers, meals etc. Trueventus reserves the right to replace / change speakers in the best interest of the conference.
- Upon receiving this signed booking form, you the client hereby consent to Trueventus to keep your details for the use of future marketing activities carried out by Trueventus and third party organisations & partners.
- Copyright and Intellectual Property. Any redistribution or reproduction of part or all of the contents in any form in connection to this event is prohibited without prior written consent by Trueventus.
- Client hereby agrees that he/she exclusively authorizes Trueventus charged the credit card with details listed above for the amount provided herein; this registration form serves as a contract that is valid, binding and enforceable. He/she at any time will have no basis to claim that the payments required under this Contract are unauthorized, improper, disputed or in any way. Upon issuance of invoice Trueventus will be charging the client USD 30 processing fee.
- All Trueventus events are held in a classroom or theater format.
- All Trueventus events are held at either 5 or 4 Star Hotels.
- All payment must be directed to Trueventus in full prior to the event. Any company's participating in National training schemes such as HRDC Scheme and are applying grants you must first pay Trueventus and upon you receiving the grant you will be refunded this amount back. Failure to pay prior to the event can result in your company being blocked from joining the conference.
- All transaction charges, withholding taxes, local taxes, or currency exchange issues will be strictly absorbed by sender. Trueventus reserves absolute right to refuse admission of participants to the event should invoice amount is not received in full.



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