| The 2024 Jap | an-New Zealand-Taiwan S | eismic Hazard Workshop | | | |
|-------------------------------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------------------------------------|--|--|--|
| Meeting Venue: Kanazawa Cultural Hall (Kanazawa Bunka Hall) | | | | | |
| | Large Conference Room, 3 | rd Floor | | | |
| | 15-1 Takaokamachi, Kanazawa, Ishikawa 920-0864 | | | | |
| | | | | | |
| WORKSHOP | AGENDA (updated 28 Oct | ober, 2024) | | | |
| Day 1: Tuesd | ay, 5 November | 1 talk = 15 min (12min + 3min discussion) | | | |
| 09:15-10:00 | Welcome & Registration | | | | |
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| 10:00-10:05 | Opening Remarks: Hiroyuk | i Fujiwara | | | |
| 10:05-12:15 | Session 1 National & Global Seismic Hazard Models (Chair: Chung-Han Chan & Yuji Dohi) | | | | |
| | 8 talks + 10 min discussion | | | | |
| | Matthew Gerstenberger | New Zealand NSHM beyond 2022: topics and priorities | | | |
| | lia Cian Caa | Probabilistic Seismic Hazard Assessment for Talwan: TEM PSHA2025 | | | |
| | Jia-Cian Gao Tekechi Azume | (UTAIL) | | | |
| | | Modeling of offshore active faults for seismic hazard assessment in | | | |
| | Nobuvuki Morikawa | Janan | | | |
| | Odonbaatar Chimed | Development of Seismic Hazard Studies in Mongolia | | | |
| | | Physically-based Non-Ergodic Event Terms in the 2023 U.S. National | | | |
| | Mark Petersen | Seismic Hazard Research and Development Model | | | |
| | Marco Pagani | Advancements in Seismic Hazard Modelling at GEM | | | |
| | Bill Fry | New Zealand Aotearoa National Tsunami Model (NTM) | | | |
| | | | | | |
| 12:15-13:15 | Lunch | | | | |
| | | | | | |
| 13:15-14:15 | Session 2 Recent Large | Earthquakes (Chair: Bill Fry & Ken X Hao) | | | |
| | 4 talks | | | | |
| | | The 2024 Noto Peninsula Earthquake: Seismic & geodetic observation, | | | |
| | Hisahiko Kubo | fault rupture process | | | |
| | Shonel Naito | Survey of Building Damage in the 2024 Noto Peninsula Earthquake | | | |
| | | Comparative analysis of the ML7.2 April 510, 2024, and ML0.9 Nov. | | | |
| | | Coastal deformation of the 2024 Hualien, raiwan | | | |
| | Yu Wang | of seismic hazard in eastern Taiwan | | | |
| | | | | | |
| 14:15-15:00 | Discussion (led by Chung | -Han Chan, Matthew Gerstenberger, Asako Iwaki) | | | |
| | | Toward further and continued international collaboration in seismic | | | |
| | | hazard/risk assessment | | | |
| | | | | | |
| 15:00-15:30 | Poster & Coffee | | | | |
| | | | | | |
| 15:30-17:15 | Session 3 Earthquake So | urce Modelling (1) (Chair: Andy Nicol & J. Bruce H. Shyu) | | | |
| | 6 talks + 15 min discussion | | | | |
| | Mark Stirling | Active Fault Studies in Southern New Zealand | | | |
| | | Opdates of the TEM onland seismogenic structure database in | | | |
| | L Pruss H. Shu | sournwestern Talwan: reined mapping and rates, and the consideration | | | |
| | J. BIUCE H. Sliyu | Or assistnic detormation | | | |
| | Makoto Matsubara | lelande | | | |
| | Rvosuke Ando | Development and Applications of the Japanese Community Fault Model | | | |
| | | Mechanism of extremely active plate boundary- Longitudinal Valley. | | | |
| | Yuan Hsi Lee | eastern Taiwan | | | |
| | | Tectonics and Seismic Hazard in the Southern Ryukyu Subduction | | | |
| | Shu-Kun Hsu | Zone | | | |
| | | | | | |
| 17:15-18:00 | Discussion & Poster | | | | |
| | | | | | |
| 18:00- | Welcome Reception (1st Fl | oor, Kanazawa Cultural Hall) | | | |

| Day 2: Wedne | esday, 6 November | 1 talk = 15 min (12min + 3min discussion) | |
|--------------|-----------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|--|
| 09:00-10:30 | Session 3 Earthquake So | urce Modelling (2) (Chair: Mika Liao & Cheng-Hung Chen) | |
| | 5 talks + 15 min discussion | | |
| | | Balancing of geodetic and seismic moment rates and its implications for | |
| | Neha | probabilistic seismic hazard analysis in Taiwan | |
| | | Application to Southwastern Taiwan | |
| | Hung-ru Wu Kirop K. S. Thinghoijom | Application to Southwestern Talwan Medelling Slip Distributions for Multi Foult Puptures | |
| | | Building Joint Crustal-Subduction Runture Sets for use in the Actearca | |
| | Chistopher Di Caprio | New Zealand NSHM | |
| | | Physics-based earthquake simulator models and their application to | |
| | Andy Nicol | hazard assessment in Actearca New Zealand | |
| | | | |
| 10:30-10:45 | Coffee | | |
| | | | |
| 10:45-12:00 | Session 4 Use of Seismic | & Geodetic Monitoring (Chair: Ruev-Juin Rau & Mark Stirling) | |
| | 4 talks + 15 min discussion | 3 (1 1 3) | |
| | | Eighth Observation Network of MOWLAS: N-net Starting Observation | |
| | Shin Aoi | of the Offshore System | |
| | | Seismic hazard assessments constrained by satellite and imaging | |
| | Ray Y. Chuang | geodesy for the Taiwan area | |
| | · · · · · · | Investigation of UBF and surface ruptures of the 1967 Mogod | |
| | Ken X. Hao | earthquakes in Mongolia | |
| | | | |
| | Hiroyuki Fujiwara | Ground Monitoring Using Fiber Optic DAS and Microtremor Observation | |
| | | | |
| 12:00-13:00 | Lunch | | |
| | | | |
| 13:00-14:45 | Session 5 Ground-Motion | Models & Simulations (Chair: Kuo-Fong Ma & Takahiro Maeda) | |
| | 6 talks + 15 min discussion | | |
| | | The 2022 New Zealand National Seismic Hazard Model applied in the | |
| | Anna Kaiser | Wellington Basin | |
| | | Ground-Motion Models Incorporating Nonergodic Effects from Empirical | |
| | Chih-Hsuan Sung | Data and 3D Numerical Simulations in Japan | |
| | | Leveraging machine learning to improve seismic scenario simulation for | |
| | Chih-Hao Hsu | urban disaster management in Laiwan | |
| | Asako Iwaki | Sample generation of ground-motion simulation waveform data | |
| | Sanjay Bora | The Future of Ground-Motion Models | |
| | Duali | From source to surface: Physics-based modeling for multi-fault rupture | |
| | | and ground motion | |
| 11.15-15.15 | Poster & Coffee | | |
| 14.40-10.10 | | | |
| 15.15-17.15 | Session 6 Application to Risk & more (Chair: Matthew Cerstenberger & Nobuvuki Morikawa) | | |
| | 7 talks + 15 min discussion | | |
| | | Diak implications of multi-fault must us used at family with any | |
| | loobon Wessers | Risk implications of multi-rault rupture models for significant exposure | |
| | Jocnen woessner | concentrations in Europe | |
| | Hiromitou Nokomura | Creat Earthquakes along the Nankai Traugh | |
| | | Great Earthquakes along the Nankar Trough | |
| | | Advancements in Time-Dependent PSHA and Rick Assessment | |
| | Kenny Graham | Accounting for Short, to Medium Term Clustering Events | |
| | | A New Ground Motion Selection Procedure with a Deaggregation | |
| | Chikara R, lihoshi | Procedure for Multiple Periods | |
| | | Implementation and Application of Integrating Building Data into 3D City | |
| | Chia-Ying Lin | Model | |
| <u> </u> | George C. Vao | Farthquake Overturning Risk Assessment of Wheelchair Licers | |
| | | Latarquare Overlaming that Assessment of Wildeloldi Usels | |
| 17.15 10.00 | Discussion | Wran un | |
| 17.10-10:00 | ווטופפעשפוש | Introduction to Field Trip | |
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Poster Presentations

| Ryosuke Ando, Azuma Akai | Development of Japanese Community Fault Model |
|--------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| | A Seismic Source Database for Tsunami Hazard Assessment in |
| Min-Hsuan Chang | Taiwan Using SSHAC Level 3 Data and the Recipe Method |
| ŭ | Characteristics and geomorphological significance of the Chaochou |
| Chia-Yu Chen | active fault in southern Taiwan |
| | High-Resolution Surface Wave Tomography of a Dense Array in |
| Ying-Nien Chen | Taiwan Using a Hybrid Approach |
| | Offshore Seismogenic Structure Database of Taiwan Farthquake |
| Cheng-Hung Chen | Model |
| | Detecting Transient Deformation in Southwestern Taiwan: Insights |
| Lishiya Chan | from InSAR and GNSS Time Series Analysis |
| | Peak ground motions and nonlinear site responses during the 2024 Mw |
| Vadah P. Dhakal | 7 5 Noto Dopingula Earthquako |
| Tadab F. Dilakai | Improvement of the Japan Tsunami Hazard Information Station (1 |
| Vuji Dobi | THIS): Improved website to support English |
| | Active testenies of the Yuli fault in the central Langitudinal Valley area |
| Chiene Duen | Active tectorics of the full fault in the central Longitudinal valley area, |
| Shiang Duan | eastern Talwan Characteristics of strong motion shoom and during the 2024 Mu/Z 4 |
| | Characteristics of strong motion observed during the 2024 MW7.4 |
| Jia-Cian Gao, Hongjun Si | Huallen earthquake based on the comparison with GMMs |
| | Strong Variation of Near-Surface o in Taiwan and its Geological |
| Yuancheng Gung | Implications |
| | Recent Seismic Activity in Southwestern Taiwan and Possible |
| Yu-Chih Huang | Seismogenic Structures |
| Shao-Yi Huang | Fault trace mapping for the 2022 Chishang earthquake |
| | A smoothing scheme, SDWave, for seismic wave propagation |
| Ryuta Imai | simulation |
| | Ground motion prediction models and seismic hazard of Georgia, |
| Nato Jorjiashvili | Caucasus |
| Shinichi Kawai | Japan Seismic Hazard Information Station, J-SHIS |
| | Forecasting ground-motion exceedance probability based on short- |
| | term earthquake occurrence probability information after a large |
| Hisahiko Kubo | earthquake |
| | Correlation Between 1941 Chongpu Earthquake and Recent Seismic |
| Chia-Nan Lai | Swarms in Chiayi Area, Taiwan |
| | Seismic Tomography Reveals Remnant High-Velocity Layer of Passive |
| En-Jui Lee | Continental Margin in the Middle Crust of Taiwan Orogen |
| | Accessing fault slip and fault geometry by using geodetic data in 2024 |
| Zi-Xin, Lee | Hualien earthquake |
| | Strain partition along the Longitudinal Valley Suture constrained by 3D |
| Min LEE | surface velocities |
| | Interseismic Deformation in the central Longitudinal Valley Suture from |
| Nai-Wun Liang | GPS measurements |
| Yi-Wun Mika Liao | Farthquake cycle modelling of the Southwest Pacific subduction zones |
| | Unveiling the seismogenic structure of arc-continent collision in eastern |
| | Taiwan: Deen-learning-empowered catalog for the 2024 M7 2 |
| Wu-Yu Liao | earthquake sequence |
| | Borehole Investigation for Understanding the Seismic Nonlinear |
| Takahiro Maeda | Behavior of Soft Soil Lavers in the Nakagawa Lowland |
| Nobuvuki Morikowa | Comparison of Earthquake Catalog between JMA and CMA |
| | Sompanson of Language Calaby Deliver Jim and CWA |
| Ruov, Juin Bou | Southwestern Taiwan |
| Nuey-Julii Kau | |
| | Coo bezerde equeed by the 2024 Nete Denine ye Ferthery etc. |
| | Geo-hazards caused by the 2024 Noto Peninsula Earthquake |
| | Geo-hazards caused by the 2024 Noto Peninsula Earthquake Source processes of moderate and offshore earthquakes revealed by |

| | Distributed Acoustic Sensing (DAS) for Shallow Structure Imaging: |
|-----------------|-----------------------------------------------------------------------|
| Cheng-Min Su | Application in the Meishan Fault Zone, Taiwan |
| | Construction of Nankai Trough Seafloor Observation Network for |
| Tetsuya Takeda | Earthquakes and Tsunamis (N-net): Reaching the Halfway Mark |
| | Enhanced Rapid Estimation of Earthquake Magnitude : A Machine |
| Wen-Huai Tsai | Learning Approach Utilizing Multi-Station Seismic Recordings |
| | Revealing potential rupture at the collision front in SW Taiwan using |
| Strong Wen | dense array microseismic analysis |
| | Analyzing Velocity Pulses through 3-D Ground Motion Modeling in the |
| Yung-Ching Yang | 2016 Meinong, Taiwan Earthquake |
| | A Short Review on Geologic Evidence of Pre-Historical Earthquakes in |
| Jin-Hyuck Choi | S. Korea |