

## Curriculum Vitae

**Name:** Mitsu Okamura  
**Date of Birth:** Tokyo, July 26, 1964|  
**Sex:** Male  
**Nationality:** Japan  
**Current position:** Professor,  
Graduate School of Science and Engineering,  
Ehime University  
Vice President of Japanese Geotechnical Society (From June 2019)



**Contact address:** 3 Bunkyo-cho, Matsuyama, 790-8577, Japan

**Phone:** +81-89-927-9820

### Academic qualification:

1988 Graduated from Civil Engineering department, Tokyo Institute of Technology

1990 Master of Engineering from Tokyo Institute of Technology

1993 Doctor of Engineering from Tokyo Institute of Technology

### Awards:

1998 Best paper by young researcher, Japanese Geotechnical Society

2007 Shamsher Prakash Research Award (Prakash Foundation, USA)

2009 Best Paper Award ISGI09, Singapore Geotechnical Society

2012 Best Paper Award, Japanese Geotechnical Society

2013 Best Article Award, Journal of Japanese Geotechnical Society

2014 Award for distinguished service, Japanese Geotechnical Society

2018 Best Paper Award of Advances in River Engineering, Japan Society of Civil Engineers

### Professional affiliations:

- Member, Japanese Geotechnical Society (JGS)
- Member, International Society of Soil Mechanics and Geotechnical Engineering
- Member, Japanese Society of Civil Engineers (JSCE)

### Work Experiences

1993 – 1997 Research Associate, Tokyo Institute of Technology

1997 – 2004 Senior researcher, Public Works Research Institute, Ministry of Construction

2004 – 2009 Associate Professor, Graduate School of Science and Engineering, Ehime University

2009 – present Professor, Ehime University

### **Professional Services (Selected)**

Vice President of Japanese Geotechnical Society (2019 - )

Chairman of ATC3 (Asian Technical Committee for Geotechnical Natural Hazards, International Society of Soil Mechanics and Foundation Engineering) (2018 -)

Chairman of Technical committee of River levee research, JSCE (2011 – 2017)

Chairman of Committee of Civil Engineering Education, JSCE (2014 – 2015)

Vice Dean of Institute of International Relation, Ehime University (2011 – 2014)

Chairman of Aseismic design manual for river levee, Public Works Research Institute

Associate Editor in Chief of Soils and Foundations, Japanese Geotechnical Society (2017 - )

Chairman of planning Committee Meeting, the Asian Civil Engineering Coordinating Council (2016 – 2019)

Member of 7 Technical Committees of Ministry of Land, Infrastructures, Transportation and Tourism.

Member of 8 Committees of Japanese Geotechnical Society

Member of 6 Committees of JSCE

Member of 2 Technical Committees of International Society of Soil Mechanics and Foundation Engineering

### **Selected Recent Publications**

M. Okamura and T. Inoue (2010): Preparation of fully saturated model ground, Proc. Int. Conf. Physical Modelling in Geotechnics, Vol. 1, 147-152.

A. Elgamal, A.B. Huang and M. Okamura (2010): Recent trends in geotechnical earthquake engineering experimentation, Proc. Int. Conf. Physical Modelling in Geotechnics, Vol. 1, pp. 23-44. Keynote lecture.

Masaki Kitazume and Mitsu Okamura (2010): Soil improvement, Soils and Foundations, Vol. 50, No. 6, pp.965-975.

Mitsu Okamura, Masaya Takebayashi, Katsuji Nishida, Nao Fujii, Motoharu Jinguji, Takehiko Imasato, Hideaki Yasuhara, and Emiko Nakagawa (2011): In-Situ Desaturation Test by Air Injection and Its Evaluation through Field Monitoring and Multiphase Flow Simulation, Journal of Geotechnical and Geoenvironmental Engineering, Proc. ASCE, Vol. 137, No. 7, pp.643-652.

Mitsu Okamura and Shuji Tamamura (2011): Seismic stability of embankment on soft soil deposit, Int. J. Physical Modelling in Geotechnics, Vol. 11, No.2, pp. 1-8.

- Yasuhara, H., Hayashi, K. and Okamura, M. (2011): Evolution in Mechanical and Hydraulic Properties of Calcite-Cemented Sand Mediated by Biocatalyst, *Proc. Geo- Frontiers 2011: Advances in Geotechnical Engineering*, ASCE.
- R.P. Orense, T. Kiyota, Yamada, Y. Hosono, M. Okamura and S. Yasuda (2011): Comparison of liquefaction features observed during the 2010 and 2011 Canterbury earthquakes, *Seismological Research Letters*, Seismological Society of America, Vol. 82, No. 6, pp. 822-835.
- Ikuo Towhata, Mitsu Okamura and Hirohumi Toyota (2011): Visit of ATC3 committee on slope instability sites in Bhutan, *ISSMGE Bulletin*, Vol. 5, Issue 5, pp. 20-31.
- Mitsu Okamura and Toshiyuki Inoue (2012): Preparation of fully saturated models for liquefaction study, *Int. J. Physical Modelling in Geotechnics*, Vol. 12, No. 1, pp. 39-46.
- Hideaki Yasuhara, Debendra Neupane, Kazuyuki Hayashi, Mitsu Okamura (2012): Experiments and Predictions of Physical Properties of Sand Cemented by Enzymatically-Induced Carbonate Precipitation, *Soils and Foundations*, Volume 52, Issue 3, pp.539-549.
- Mitsu Okamura, Shuji Tamamura, Rikuto Yamamoto (2013), Seismic stability of embankments subjected to pre-deformation due to foundation consolidation, *Soils and Foundations*, Volume 53, Issue 1, pp.11-22.
- Tomida, Y and Okamura, M (2013): Verification of desaturation technique as a liquefaction countermeasure for existing embankments, *International Journal of Landslide and Environment* Vol. 1, No. 1, pp. 111-112.
- Marasini N. P. and Okamura M (2013): Liquefaction potential analysis and probable remedial measure for existing structure in Kathmandu Valley, *International Journal of Landslide and Environment* Vol. 1, No. 1, pp. 59-60.
- M. Okamura and S. Hayashi (2014): Damage to river levees by the 2011 Off the Pacific Coast Tohoku earthquake and prediction of liquefaction in levees, *Geotechnics for Catastrophic Flooding Events*, Taylor & Francis Group, ISBN 978-1-138-02709-1, pp. 57- 67 (Keynote Lecture).
- Narayan Marasini and Mitsu Okamura (2014): Numerical simulation of centrifuge tests on seismic behavior of residential building on liquefiable foundation soil. *Proc. Computer Methods and Recent Advances in Geomechanics*, Taylor & Francis Group, ISBN 978-1-138-00148-0, pp. 847- 852.
- Narayan P. Marasini and Mitsu Okamura(2015): Liquefaction Potential Analysis and Possible Remedial Measure for Existing Structure in Kathmandu Valley, *International Journal of Landslide and Environment*, Vol.2, No.2&3, pp.32-44.
- Narayan Marasini and Mitsu Okamura (2015): Air injection to mitigate liquefaction for under

- existing structures, *Int. J. Physical Modelling in Geotechnics*, Vol. 15, Issue 3, pp. 129-140.
- Mitsu Okamura, Netra P. Bhandary, Shinichiro Mori, Narayan Marasini, Hemanta Hazarika (2015): Report on a reconnaissance survey of damage in Kathmandu caused by the 2015 Gorkha Nepal earthquake, *Soil and Foundation*, Vol. 55, Issue 5, pp. 1015-1029.
- Narayan Prasad Marasini, Mitsu Okamura (2015): Numerical simulation of centrifuge tests to evaluate the performance of desaturation by air injection on liquefiable foundation soil of light structures, *Soil and Foundation*, Vol. 55, Issue 6, pp. 1388-1399.
- Okamura, M., Bhandary, N.P., Mori, S., Narayan, M. and Hazarika, H. (2015): Report on a reconnaissance survey of damage in Kathmandu caused by the 2015 Gorkha Nepal Earthquake, *Soils and Foundations*, Vol. 55, No. 5, pp. 1015-1029.
- Mitsu Okamura (2017): Full scale test on cost effective liquefaction countermeasure for a highway embankment, *Journal of Seismological Research*, Vol. 40, No. 1, 45-51.
- Minson Simatupang and Mitsu Okamura (2017): Liquefaction resistance of sand remediated with carbonate precipitation at different degrees of saturation during, *Soils and foundations*. Vol. 57, No. 4, pp. 619-631.
- Minson, S. and Okamura, M. (2018): *International Journal of Soil Dynamics and Earthquake Engineering*, Vol. 115, pp. 710-718.
- Mitsu Okamura, Fred Nelson and Shota Watanabe (2018): Pre-shaking effects on volumetric strain and cyclic strength of sand and comparison to unsaturated soils, *International Journal of Soil Dynamics and Earthquake Engineering*,
- Sjafruddin, Asri Nurani; Okamura, Mitsu (2018): Ehime1, Ehime2, Ehime3 - Ehime University Experiments, in PRJ-1843: LEAP-UCD-2017, PRJ-1843: LEAP-UCD-2017 Experiments (Liquefaction Experiments and Analysis Projects), doi:10.17603/DS2CH6T
- Nelson Fred and Mitsu Okamura (2019): Influence of strain histories on liquefaction resistance of sand, *Soils and Foundations*, Vol. 59, No. 5, pp. 1481-1495.
- Mitsu Okamura, Kohei Ono, Utari S. Minaka, Ardy Arsyad, Sukiman Nurdin (2020): Large scale flowslide in Sibalaya due to the 2018 Sulawesi Earthquake, *Soils and Foundations*.