

## **Horng-Jyh Yang (Tigra)**

### **Education**

Ph.D., Civil and Environmental Engineering, University of Nevada, Reno, 2005

M.S., Civil Engineering, National Pingtung University of Science and Technology, Taiwan, 1995

B.S., Civil Engineering, Chung Yuan University, Taiwan, 1993

### **Academic experience**

1. West Virginia University, Institute of Technology (Department of Civil Engineering), Assistant Professor, (August, 2011 – Current), full time
2. University of Nevada, Reno (Department of Civil and Environmental Engineering), Lecturer, (July, 2005 – May, 2011), full time
3. University of Nevada, Reno (Department of Civil and Environmental Engineering), Letter of Appointment, (Aug., 2001 – June, 2005), part time
4. National Pingtung University of Science and Technology, Taiwan, (Civil Engineering Service Center), Geotechnical Eng. Lab Manager, (July,1997 – Feb.,1998), full time

### **Non-academic experience**

1. Nevada Department of Transportation, Intern Engineer, Project review, Retaining Wall design menu edit, Field tests, and Laboratory tests, Summer (2000~2004), part time
2. Engineer Troops of Taiwan Army, Taiwan, Secondary Lieutenant, Military Construction includes tunnel excavation, harbor extension and construction management. (July,1995 - May,1997), full time

### **Certifications or professional registrations**

1. Professional Engineer, State of Nevada [Certificate No: 20482]
2. Engineer Intern, State of Nevada [Certificate No: 0T5214]

### **Current membership in professional organizations**

1. American Society of Civil Engineers (ASCE)
2. Geo-Institute of ASCE
3. Earthquake Engineering Research Institute (EERI)

### **Honors and awards**

Professor of Year 2011, 2009 and 2006, Student Chapter of American Society of Civil Engineers (ASCE) at University of Nevada, Reno

### **Service activities (within and outside of the institution)**

1. Faculty Evaluation Committee, WVU TECH, 01/2014 ~ present
2. Faculty Senator of West Virginia University, 08/2012 ~ present
3. Faculty Research and Scholarship Committee of West Virginia University, 08/2012 ~ present
4. Advisor, ASCE student chapter at West Virginia University, Institute of Technology, 08/2012 ~ present
5. Professional Judge for Engineering Excellence Awards Submissions, ACEC, WV, 10/2011, 10/2012, 10/2013
6. Editorial board of Journal of Cyber-Physical Systems
7. WVU Tech Coed Dorm Site Project consultant and Drainage ditch design, 09/2012
8. "Soil Magic!" demonstration workshop for Engineering Open House, WVU Tech, 11/2011, 10/2012, 10/2013

### **Publications and presentations**

#### **A. Publications**

1. Koray Ulamis and **H-J Yang**, "Axial Strain Related to Liquefaction under Anisotropic Loading Condition", Journal of Telif Hakki Devir Formu, February 2013
2. **H-J Yang**, "Application of the Dynamic Cone Penetrometer in Shallow Sub-surface Soil Mechanics Characterization", 2nd International Conference on Sustainable Design, Engineering and Construction (ICSDEC 2012), November 2012
3. **H-J Yang**, G. Norris and S. Elfass, "The Characteristic (or Phase Transformation) Friction Angle", 44th Symposium on Engineering Geology and Geotechnical Engineering (EGGE), Reno, Nevada

#### **B. Presentations**

1. "Cyber-Physical System Applied in Landslide Detection and Forecast", Kun Shan University (May 27, 2013), St. John's University (May 29, 2013), Chien Hsin University of Science and Technology (June 7, 2013), Chienkuo Technology University (June 14, 2013), Kao Yuan University (June 25, 2013), Vanung University (June 26, 2013)
2. "Soil Liquefaction Evaluation under Anisotropic Condition", National Kaohsiung University (June 18, 2013), National Chiayi University (July 8, 2013)
3. "C.K. Chen Triaxial Undrained and Drained Shear Test" Workshop, Department of Civil and Environmental Engineering, U of Nevada, Reno (April 3<sup>rd</sup>, 2012)

### **Most recent professional development activities**

#### Research:

1. Project title: *Introduce the Refraction Microtremor (ReMi) Shear Wave Technique to Civil and Electrical Engineering Students at WVU Tech*, PI, Division of Science and Research, West Virginia Higher Education Policy Commission (Jan. 2014 ~ Dec. 2014- \$20,000)

2. Project title: *West Virginia Center of Excellence for Cyber-Physical Systems*, Co-PI, Division of Science and Research, West Virginia Higher Education Policy Commission (Jan. 2013 ~ Dec. 2015- \$200,000)