

# Annual General Meeting Report of Hong Kong Society of Theoretical and Applied Mechanics (April 8, 2017)

## 1 Main Activities (since April 2016)

### 1.1 HKSTAM Annual Conference 2017

The 21<sup>st</sup> Annual Conference of HKSTAM (2017) in conjunction with the 13<sup>th</sup> Jiangsu – Hong Kong Forum on Mechanics and Its Application was held on **April 8, 2017 at The Hong Kong Polytechnic University, HK SAR**. This conference was co-organized by the Hong Kong Society of Theoretical and Applied Mechanics (HKSTAM), the Jiangsu Society of Theoretical and Applied Mechanics (JSTAM), and the Hong Kong Polytechnic University (PolyU). The one-day conference aims to provide a platform for all scientists, engineers, and mathematicians working on mechanics and related areas to share, communicate and exchange ideas, and to enhance co-operations within relevant parties.

This proceeding consists of 49 abstracts including 4 Distinguished Lectures by **Prof. Alfonso Hing Wan NGAN** from The University of Hong Kong, **Prof. Maosen CAO** from Hohai University, **Prof. Quan WANG** from City University of Hong Kong, and **Prof. Jinxing LIU** from Jiangsu University. The conference is structured into 8 parallel sessions with 45 presentations.

#### Distinguished Lectures



**Prof. Alfonso Hing Wan NGAN**

Chair Professor, The University of Hong Kong

**“When mechanics meets with chemistry – novel redox actuators made from nickel hydroxide”**



**Prof. Maosen CAO**

Professor, Hohai University

**"Wavelets-Driven Multiscale Dynamics Concepts for Structural Damage Detection"**



**Prof. Quan WANG**

Chair Professor, City University of Hong Kong

**"Energy Harvesting from ocean waves by Piezoelectric Technologies"**



**Prof. Jinxing LIU**

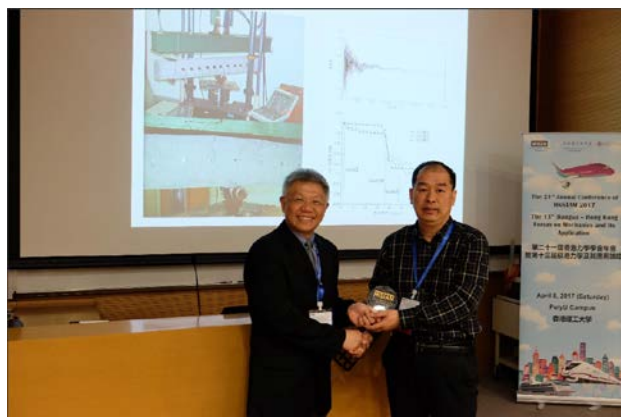
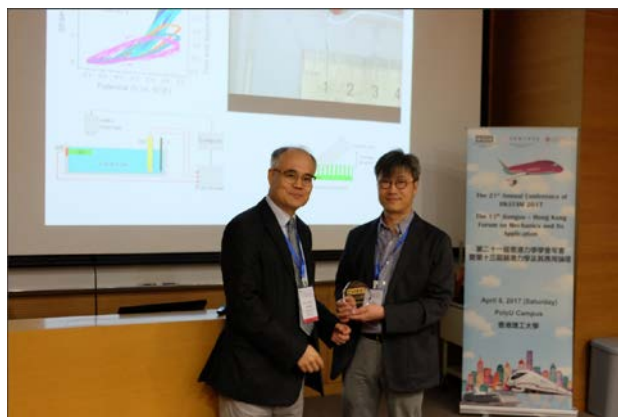
Professor, Jiangsu University

**"Strain gradient elasto-plasticity meeting some newest challenges"**

A total of **62 registered participants** in the conference including 14 EC members, 7 Jiangsu JSTAM participants, 4 invited speakers, 1 overseas participant and 36 other local participants. Based on a rigorous selection, eight **"Best Student Presentation Awards"** are given to honor best student presenters in the annual conference.



Conference group photo



HKSTAM representatives presenting souvenirs to four plenary speakers

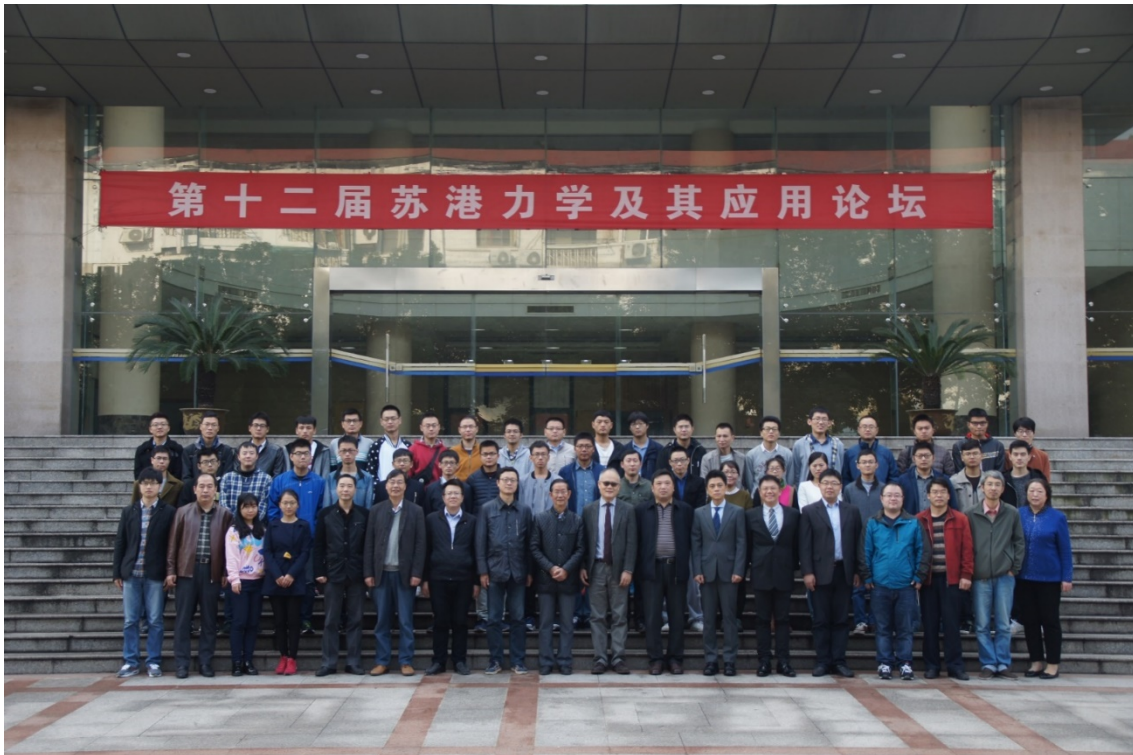


Eight students receiving Best Student Presentation Awards



## 1.2 Participation to 12<sup>th</sup> Jiangsu-HK Forum

On behalf of HKSTAM, HKSTAM President, Prof. Li Cheng, Vice President, Dr. Heung Fai Lam, and Secretary, Prof. Zhongqing Su, attended the 12<sup>th</sup> Jiangsu-HK Forum on Mechanics and Its Application on 6<sup>th</sup> Nov 2016. All three delegates delivered keynote speeches.



Conference group photo



Opening ceremony (left) and keynote speech by Prof. Cheng (right)



Keynote speech by Dr. Lam (left) and by Prof. Su (right)

### 1.3 Establishment of “Overseas Research Collaboration Coordination Platform”

In order to promote research collaboration between HKSTAM and Jiangsu STAM, an “Overseas Research Collaboration Coordination Planform”, initiated by Jiangsu STAM, has been established in Hong Kong. This platform will be dedicated to research collaboration coordination, human resources sharing and cutting-edge research promotion.



Ceremony for platform establishment



## 1.4 Other Activities

### 1.4.1 International Union of Theoretical and Applied Mechanics (IUTAM)

The 24<sup>th</sup> International Congress of Theoretical and Applied Mechanics (ICTAM 2016) organized by IUTAM was held on Montreal, Canada, 21-26 Aug. 2016. Prof. QP Sun and Prof. CW Lim attended the congress, on behalf of HKSTAM.



## 2 Current Status of HKSTAM

HKSTAM has over 150 members including 40 life members. In this year, HKSTAM has 12 institutional members, including:

1. Department of Architecture and Civil Engineering, City University of Hong Kong
2. Department of Mathematics, City University of Hong Kong
3. Department of Mechanical and Biomedical Engineering, City University of Hong Kong
4. Department of Physics and Materials Science, City University of Hong Kong
5. Department of Applied Mathematics, The Hong Kong Polytechnic University
6. Department of Civil and Environmental Engineering, The Hong Kong Polytechnic University
7. Department of Mechanical Engineering, The Hong Kong Polytechnic University
8. Department of Civil and Environmental Engineering, The Hong Kong University of Science and Technology
9. Department of Mechanical and Aerospace Engineering, The Hong Kong University of Science and Technology
10. Department of Mechanical Engineering, The University of Hong Kong
11. Department of Civil and Environmental Engineering, University of Macau
12. Department of Electromechanical Engineering, University of Macau

## 3 Future Plan (April 2017-April 2018)

1. Basic activities:
  - a. Four Distinguished Lectures will be organized (including two confirmed)
  - b. HKSTAM annual conference in conjunction with Shanghai-HK forum
2. Promote HKSTAM and attract more members (full, student and institutional)
  - a. Explore the possibility to run Continuous Professional Development (CPD) Seminars for local engineers
  - b. Attract international participants to HKSTAM annual conference.
  - c. Development of Graduate Student Conferences with institutional members and RGC support
  - d. Support the organization of GRC (Gorden Research Conference) in Hong Kong
3. Strengthen the collaboration with other mechanics related associations, especially in Pearl River Delta Region.
4. Encourage to submit proposals for IUTAM Symposium or summer school (<http://iutam.org/site/propSymp.asp>).

#### 4 Executive Committee of HKSTAM for 2016-2018

President	Prof. Li CHENG (成利), Department of Mechanical Engineering, The Hong Kong Polytechnic University (Email: mmlcheng@polyu.edu.hk, Tel: 27666769)
Vice President	Dr. Paul H. F. LAM (林向暉), Department of Civil and Architectural Engineering, City University of Hong Kong (Email: paullam@cityu.edu.hk, Tel: 34427303)
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IUTAM Representative	Prof. Q. P. SUN (孫慶平), Department of Mechanical Engineering, Hong Kong University of Science and Technology (Email: meqpsun@ust.hk, Tel: 2358 8655)