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## 2017第二届数学与计算机科学国际 研讨会 (ISMCS2017)

尊敬的\_\_\_\_\_先生/女士，您好！

2017第二届数学与计算机科学国际研讨会 (ISMCS2017) 将于2017年07月在苏州召开。

### 大会内容

2017第二届数学与计算机科学国际研讨会为广大数学、计算机科学研究领域的学者、专家提供交流平台，会议组委会诚邀全球相关领域的学者、专家参加此次国际会议，就数学在科学领域中的应用、计算机科学为主题的相关热点问题进行探讨、交流，共同促进全球数学与计算机科学研究的发展。

2017第二届数学与计算机科学国际研讨会将于2017年7月25-26日在中国苏州召开。苏州，是中华人民共和国江苏省东南部的一个地级市，位于长江三角洲和太湖平原的中心地带，著名的鱼米之乡、状元之乡、院士之乡、经济重镇、历史文化名城，自古享有“人间天堂”的美誉。苏州有文字记载的历史已有4000余年，是中国现存最古老的城市之一，江南吴文化的发祥地，历史上长期为江南地区一级行政区的首府和经济文化中心。

### 会议日程

欢迎参加2017第二届数学与计算机科学国际研讨会 (ISMCS2017)，ISMCS2017将于2017年7月25-26日在中国苏州召开。以下是会议日程信息，供您参考：

(具体日程安排会根据实际情况有所调整)

会议日程		
7月24日	11:00-17:00	报到
7月25日	09:00-12:00	特邀嘉宾演讲
	12:00-14:00	午餐
	14:00-17:30	口头报告
	18:30-20:00	晚宴
7月26日	08:00-18:00	苏州一日游

### 会议嘉宾

**Dr. Peng-Sheng Wei, Professor**

Department of Mechanical and Electro-Mechanical Engineering, National Sun Yat-Sen University, Taiwan

**Biography:** Dr. Peng-Sheng Wei received Ph.D. in Mechanical Engineering Department at University of California, Davis, in 1984. He has been a professor in the Department of Mechanical and Electro-

Mechanical Engineering of National Sun Yat-Sen University, Kaohsiung, Taiwan, since 1989. Dr. Wei has contributed to advancing the understanding of and to the applications of electron and laser beam, plasma, and resistance welding through theoretical analyses coupled with verification experiments. Investigations also include studies of their thermal and fluid flow processes, and formations of the defects such as humping, rippling, spiking and porosity. Dr. Wei has published more than 80 journal papers, and delivered more than 90 times of Keynote or Invited Speeches in international conferences. He is a Fellow of AWS (2007), and a Fellow of ASME (2000). He also received the Outstanding Research Achievement Awards from both the National Science Council (2004), and NSYSU (1991, 2001, 2004), the Outstanding Scholar Research Project Winner Award from National Science Council (2008), the Adams Memorial Membership Award from AWS (2008), the Warren F. Savage Memorial Award from AWS (2012), and the William Irrgang Memorial Award from AWS (2014). He has been the Xi-Wan Chair Professor of NSYSU since 2009, and Invited Distinguished Professor in the Beijing University of Technology, China, during 2015-2017.

**Topic:** Mathematical Analysis of Bubble Dynamics Applied in Pore Shape Development in Solid

**Abstract:** Controlling states and growths of a tiny bubble (or a pendant drop) in a static liquid on a solid surface or orifice can be achieved by introducing general dimensionless phase diagrams by applying singular perturbation solutions with small Bond number of the Young-Laplace equation in the literature. Pore formation and its shape in solid influence not only microstructure of materials, but also contemporary issues of various sciences of biology, engineering, foods, geophysics and climate change, etc. In order to remove and control porosity, understanding its formation is important. This work parametrically presents general three-dimensional phase diagrams to describe development of the pore shape. The phase diagrams are found to be divided into three regions, depending on if the bubble surface contains an inflection point or neck. The general growth, departure and entrapment of a bubble thus can be described by path lines on diagrams by adjusting two of three dimensionless parameters governing the apex and base radii, and contact angle. Validity of this model is confirmed by comparing with available theoretical data, agreed with experimental results in the literature.

**Dr. Sammani Danwawu Abdullahi**

**Mathematics Department, Foundation Program, Qatar University, Qatar**

**Biography:** Dr. Sammani Danwawu Abdullahi graduated from Bayero University, Kano with BSc (Hons.) Mathematics – 1<sup>st</sup> Class division and MSc Mathematics in 1990 and 1996 respectively. He earned his PhD in Computing, from the School of Computing, Faculty of Engineering, The University of Leeds, United Kingdom in 2003. He was awarded Chartered Mathematician designation by the Institute of Mathematics & Its Application (United Kingdom) on 7<sup>th</sup> May, 2003. He has over 25 years teaching experience in various countries in the world which included Nigeria, United kingdom, United Arab Emirates, Australia and now in Qatar as Mathematics Lecturer. He has over 20 publications to his credit.

**Topic:** Degeneracy in Vertex Enumeration: A Comparative Approach of Two Basis Oriented Pivoting Algorithms

**Abstract:** Degeneracy in Vertex Enumeration (VE) algorithms has been challenging issues in 60s, 70s, 80s and 90s. VE algorithms explored methods and procedures of determining solutions that lie at corners of convex polyhedron that are formed by system of linear equations or inequalities. A vertex (extreme point) is said to be degenerate if more number of hyperplanes are binding than the corresponding dimension. A Comparison of two Basis Oriented Pivoting (BOP) algorithms that handle low-level of vertex-degeneracy using some examples are presented and a new VE algorithm is suggested for handling polyhedra that have high-level of vertex-degeneracy.

## 会议门票

参会费用 ( 只参会不投稿人员 )

票务类别	包含内容	2017年7月5日前缴费	2017年7月5日后缴费及现场缴费
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C票	参会+会议资料+礼品+旅游	1000元	1200元
D票	参会+会议资料+礼品+旅游 +午餐+欢迎晚宴	1400元	1600元

注：只参会不投稿人员可在会议中做口头报告，注册费用在以上票价（C票、D票）基础上增加500元（口头报告的主题、摘要等信息将会收录在程序手册中）。

参会费用所含内容说明：

1. 参会：听取大会主会场报告及分会场报告；
2. 版面费：一篇论文的出版费用（A、B票）；
3. 午餐和欢迎晚宴：会议期间的午餐及欢迎晚宴（仅B、D票；A票、C票及E票均需参会者自理餐费；如需现场购买，标准为：午餐200元，晚宴200元）；
4. 会议资料：胸牌，程序手册，纸质期刊一本（作者文章所发表的一期的纸质版，国内邮寄免费，国外邮寄需加收邮费）等；
5. 礼品：大会精美纪念礼品一份；
6. 旅游：上海一日游，缴费的参会者在会后可享受免费旅游（如不参加旅游，无退费）。

其他说明：

1. 团体购票6张及以上可享9折优惠；
2. 团体购票10张及以上可享8折优惠；

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