



**PROCEEDINGS OF THE 5th
INTERNATIONAL CONFERENCE
ON NONLINEAR MECHANICS**

第五屆國際非线性力学会议论文集 SHANGHAI 2007



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ON NONLINEAR MECHANICS



Prof. CHIEN Wei-zang

FIFTH INTERNATIONAL CONFERENCE ON NONLINEAR MECHANICS

(ICNM-V)

***11-14 June, 2007
Shanghai, China***

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PREFACE

In the early summer of 2007, a number of top scientists and gifted young scholars in the field of nonlinear mechanics, at home and abroad, will gather in prosperous Shanghai to attend the 5th International Conference on Nonlinear Mechanics (ICNM-V). As an initiator of the series conferences, I feel extraordinarily pleased. It is my honor to extend our warm and cordial welcome to all the participants on behalf of the organizers of the ICNM-V.

A long way has passed since the ICNM-I was held in 1985. In this period, with the rapid development of science and technology, the requirements for nonlinear mechanics have increasingly grown and a large amount of achievements have been made. Therefore, there have appeared the active response and ever-lasting enthusiasm of academic circles to our Conferences. I was told that more than 500 contributed papers rushed into the Secretariat of the ICNM-V and 300 of them were sorted out to be published in the Proceedings, surpassing those at the previous 4 Conferences both in quantity and in quality.

At the first Meeting, I pointed out, “Nonlinear mechanics represents one of the main trends in the study of modern mechanics, a very important one. It has not only served as theoretical basis for the development of new technology and material, but also has reclaimed many new research fields and initiated numerous new methods in applied mathematics”. The conclusion has been verified by the recent progress in modern mechanics. I have always claimed that for speeding up the development of mechanics and other basic disciplines of sciences, it is essential to combine theory with practice, science with technology, and mathematical sciences with applied sciences. Hence this series conferences stick to this principle, that is, aiming to accomplish the interactions between modern mechanics and modern science-technology, and between modern mathematics and mechanics. Only in this way can our conferences have such a long-term attractiveness and energy.

It is inspiring for me to find that the ICNM-V continues to follow the above-mentioned basic idea. Specifically speaking, this Conference has two unique characters. One is having gained deeper insight into the new trend of the progress in the study of modern mechanics. In the new century, with the development of science and technology, people are more concerned with microscopic and mesoscopic phenomena and with the mechanism in the coupling of multiple fields. The related viewpoints and results will be mainly exchanged in this Meeting. The other is having attracted more colleagues in academic and industrial circles, who contributed a lot of valuable articles. In particular, the number of papers on experimental mechanics is up to 30. As is well known, the new advances in hi-tech is the spring of life for modern mechanics.

About one year ago, the International Union for Theoretical and Applied Mechanics (IUTAM) approved to accept the ICNM series conferences as one of the IUTAM series conferences, which denotes the recognition and support from the international mechanics circles

to our conferences. On behalf the ICNM, I would like to express our heartfelt gratitude to the IUTAM.

I feel an upsurge of emotion in recalling the past events in these 22 years. In the process of initiating and steering the ICNMs, many renowned scholars became my intimate friends, among whom, some have unfortunately passed away, and the others have been mostly in their old ages. All of them have made their indelible contribution to the Conferences. Here I would extend my sincere respects and gratitude to them. What makes us feel relieved is that the cause of modern mechanics is by no means lack of successors. This Conference has been mainly organized by a group of my middle-aged and young colleagues, who made everything going smoothly. So I pin my hopes on young generations.

Like previous Conferences, the ICNM-V has been prepared and organized under the effective guidance of the members of the Steering Committee. The contributed papers have been meticulously reviewed and selected by the members of the Scientific Committee. The Proceedings has been compiled and printed by the staff members at Shanghai University, in particular, those at Shanghai University Press. The financial supports to the Conference are from the National Natural Science Foundation of China, the K. C. Wong Foundation and the Science and Technology Commission of Shanghai Municipality. My special thanks are due to all of them.

Wei-zang Chien

Shanghai,

May 2007

序 言

2007年初夏，国际非线性力学界的精英和新秀将相聚于上海，参加第五届国际非线性力学会议。我作为这一系列国际会议的发起者，欣喜万分。在此谨向来自世界各地的新朋旧友们表示热烈、诚挚的欢迎！

自1985年召开首届国际非线性力学会议以来，已经二十多年过去了。在此期间，随着科学技术的突飞猛进，对非线性力学研究的需求日益增长，相关的成果层出不穷。因此，学术界的朋友们对我们的会议显示了持久不断的热情支持和与日俱增的深切关注。会议的组织者告诉我，本届会议收到了约500篇稿件，经严格筛选，录用了约300篇，刊登于本文集，在数量和质量上超过了历届会议。

在首届国际非线性力学会议上我曾指出：“非线性力学是当代力学研究工作的主流之一，而且还是很重要的主流。它不仅为新技术、新材料、新工艺的发展提供重要的理论基础，而且为应用数学开辟了许多新领域。创造了许多新方法。”近年来，现代力学的发展，应验了我的这一说法。我一直认为，力学和其它基础科学要加速发展，必须实现理论与实际、科学与技术、数学科学与应用科学的密切结合。因此，本会议始终立足于如下信念：努力做到现代力学与现代科技的密切交缘、现代数学与现代力学的密切交缘。正因为如此，我们的会议才有经久不衰的魅力和永葆青春的活力。

让我感到欣慰的是：本届会议继续贯彻了上述基本思路。其中的特色有二：一是把握了现代力学发展的新动向。进入新世纪以来，随着科技发展，跨尺度效应和多场耦合效应备受关注，人们更为关心微观、介观尺度的现象以及复杂环境下的机理。会上将重点交流这方面成果；二是团结和吸引了更多的科技界和产业界人士，他们送来了一批先进成果，尤其值得高兴的是，实验力学方面的论文竟有30篇之多。要知道，高新技术的新发展，是现代力学的生命之泉。

大约一年前，国际理论和应用力学联合会(IUTAM)已正式批准我们的会议为IUTAM的系列会议之一。这标志着国际力学界对我们的会议的认可和支持。这里，我也向IUTAM表示真诚的感谢！

回首往事，心潮难平。当初与我共同发起、指导会议的老朋友中，有的已经西游，有的也垂垂老矣。在此，我向他们表示由衷的敬意和谢意！令人高兴的是：现代力学事业后继有人，本届会议就是主要由一批中青年教师操持的，他们把会议组织得井井有条。我寄希望于后来者。

与历届会议一样，本届会议得到了会议指导委员会成员的多方面的指导和帮助；会议学术委员会认真筛选了来稿；上海大学（尤其是上海大学出版社）的同事们编印了精致的文集；国家自然科学基金委员会、王宽诚基金会委员会和上海市科学技术委员会给了会议慷慨的资助。这里，谨向他们致以诚挚的谢意。

钱伟长

2007年5月于上海

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