

白以龙院士荣获John Rinehart奖

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2007年2月25日至3月1日, 在美国佛罗里达州奥兰多市举办的2007 TMS(The Minerals, Metals and Materials Society)年会上, 非线性力学国家重点实验室白以龙院士荣获John Rinehart奖。

该奖项表彰的是在材料动态行为领域做出杰出贡献的学者。此奖项今年是第四次颁奖, 白以龙院士是第一位获得John Rinehart奖的中国科学家。

白以龙院士对热塑剪切带和统计细观损伤力学理论做出了重大贡献。他和他的同事, 针对热塑性剪切局部化, 发明了一种单扭转应力脉冲实验装置, 建立了热塑剪切变形的控制方程, 得到了失稳判据、演化规律、剪切带特征宽度及剪切带控制延性机理等一系列重要的创新性结果; 他针对非均匀材料的微损伤累积导致失效问题, 提出和实现了亚微秒应力脉冲技术和多应力脉冲技术, 建立了统计细观损伤力学理论框架, 揭示了灾变破坏的共性前兆—损伤局部化和临界敏感性。上述成果被国际上一些著名实验室证实和本领域学者相当广泛地引用, 称之为“白判据”, “白模型”。正如John Rinehart奖对白以龙院士的工作评述: “在剪切带形成和材料损伤领域做出了开创性的贡献, 对中国材料动态行为领域起着引领作用。” (John Rinehart Award's Citation: Recipient of 2007 John S. Rinehart Award for seminal contributions to the theories of shear-band formation and damage in materials and For leadership in dynamic behavior of materials in China)

TMS学会结构材料分会(Structural Materials Division)举办的材料动态行为会议, 是EXPLOMET会议 (International Conference on Fundamental Issues and Applications of Shock-Wave and High-Strain-Rate Phenomena, 1980-2000) 的延续, 本次会议的主题是冶金与材料中的变形与失效问题。为了表彰该领域优秀科学家, 自1990年起设立了John Rinehart 奖 (John Rinehart Award), 该奖项前三届的获奖者为:

- 1990年 A. Deribas, Institute of Hydrodynamics, Russia;
M. Wilkins, LLNL (ret), USA;
- 1995年 R. Pruemmer, Germany;
A. Sawaoka, Japan;
- 2000年 D. Curran, SRI International (ret.), USA;
D. Shockey, SRI International, USA



John Rinehart奖奖状


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10:30 AM
John Rinehart Award: Manoj Aggarwal, University of California
The goals of the four TMS dynamic behavior of materials symposia are presented with highlights on the principal findings over the past fifteen years. The TMS symposia represent a continuation of the EXPLOMET conferences (1980-2000) that trace, on their turn, initiated by the ASME symposia of 1961 and 1973. The metallurgical and materials aspects of deformation and failure have been the primary focus of these conferences. The need to recognize excellence in this field has led to the establishment of the John Rinehart Award. Previous recipients are: 1990 A. Deribas, Institute of Hydrodynamics, Russia; M. Wilkins, LLNL (ret), USA; 1995 R. Pruemmer, Germany; A. Sawaoka, Japan; and 2000 D. Curran, SRI International (ret.), USA; D. Shockey, SRI International, USA. The 2007 recipients of the John S. Rinehart Award will be announced.

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▶ 白以龙院士简历及代表性著作论文一览 

 关闭窗口