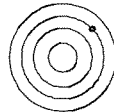


IFES 06



**19th International Vacuum Nanoelectronics Conference
& 50th International Field Emission Symposium**

July 17 ~ 20, 2006

Guilin, China

Technical Digest

Conference Chair: Ningsheng Xu
Program Chair: Ningsheng Xu
Program Co-Chairs: Jun Chen
Wei Lei
Shaozhi Deng



Sun Yat-Sen University



Technical Digest of the 19th International Vacuum Nanoelectronics Conference & 50th International Field Emission Symposium, July 17 ~ 20, 2006

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¹School of Materials Science, Japan Advanced Institute of Science and Technology, Japan
²Department of Engineering, University of Cambridge, U.K.
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⁴Diamond Research Center, AIST, Japan
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⁶IMRAM, Tohoku University, Japan
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³Research Fellow of the Japan Society for the Promotion of Science, Japan

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²Imago Scientific Instruments, USA
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²Department of Metallurgy and Ceramics Science, Tokyo Institute of Technology, Japan
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¹Key Laboratory of Excited State Processes, Changchun Institute of Optics, Fine Mechanics and Physics, Chinese Academy of Sciences, China;

²Graduate school of the Chinese Academy of Sciences, China

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²Monash Center for Electron Microscopy, Monash University, Australia
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steel

J. Akre¹, F. Danoix¹, H. Leitner², W. Lefebvre¹, F. Vurpillot¹, P. Auger¹

¹Institut des Matériaux de Rouen - Site Universitaire du Madrillet - Université de Rouen, France

²Department of Physical Metallurgy and Materials Testing, Montanuniversität Leoben, Austria

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¹Institut des Matériaux de Rouen - Site Universitaire du Madrillet - Université de Rouen, France
²GEMPPM – UMR CNRS 5510 – INSA Lyon, France

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²Department of Material and Earth Sciences, Darmstadt University of Technology, Germany
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¹Institute for Analytical Instrumentation of the Russian Academy of Sciences, Russia
²A.F. Ioffe Physical-Technical Institute of the Russian Academy of Sciences, Russia
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¹Department of Physics, International Christian University, Japan
²School of Materials Science, Japan Advanced Institute of Science and Technology, Japan
³Department of Engineering, University of Cambridge, U.K.
⁴Diamond Research Center, AIST, Japan
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¹ECECS Department, University of Cincinnati, USA
²Equipe Emission Electronique, LPMC-CNRS, University Lyon 1, France
³Institute for Microstructural Sciences, National Research Council, Ottawa, Canada
⁴Department of Electrical Engineering, Virginia Commonwealth University, USA
⁵Air Force Research Laboratory, USA
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He Yongning, Zhang Songchang, Zhu Changchun

Department of Electronic Science and Technology, the School of Electronic & Information, Xi'an Jiaotong University, China

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¹Australian Key Centre for Microscopy & Microanalysis, University of Sydney, Australia.

²Electron Microscope Unit, University of New South Wales, Australia.

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Materials Science and Technology Division, Oak Ridge National Laboratory, Oak Ridge, TN, USA

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Department of Materials, Oxford University, UK

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Vacuum Electronics National Laboratory, Beijing Vacuum Electronics Research Institute, China

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¹Groupe de Physique des Matériaux, Institut des Matériaux de Rouen - Site Universitaire du Madrillet - Université de Rouen, France

²G.R.C.M. EA 2620 - INSA - 20 avenue des Buttes de Coësmes, France

³GEMPPM – UMR CNRS 5510 – INSA Lyon, France

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¹National Center for Electron Microscopy, Lawrence Berkeley Laboratory, University of California, CA, USA
²Oak Ridge National Laboratory, Materials Science and Technology Division, Oak Ridge, TN, USA
³Department of Chemical and Materials Engineering, University of Alberta, Edmonton, Alberta, Canada
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