Fusion Greennology"

CONTENTS / MARCH 1990-VOL. 17, NO. 2

227 Comments / George Miley

JAPANESE FUSION RESEARCH: ACTIVITIES IN FUSION NUCLEAR TECHNOLOGY

229 Associate Editor's Comments / Nobuyuki Inoue

TECHNICAL PAPERS

PART I: OVERVIEW

- 232 History and Organization of Fusion Research and Development in Japan / Akira Oikawa
- 235 Nuclear Fusion Research Supported by the Science and Technology Agency and the Ministry of International Trade and Industry / *Akio Kitsunezaki*
- 243 Nuclear Fusion Research in Japanese Universities Supported by Monbusho / Takashi Shibasaki
- 246 Fusion Nuclear Technology Research and Development in Japan / Haruki Madarame

PART II: FACILITIES AND ACTIVITIES IN FUSION NUCLEAR TECHNOLOGY

- 247 Hokkaido University / Toshiro Yamashina, Tomoaki Hino, Yuko Hirohata, Shin Fukuda, Masao Hashiba, Hideki Minagawa
- 252 Tohoku University / Saburo Toda
- 253 The University of Tsukuba / Hideki Nariai
- 254 The University of Tokyo / Takayuki Terai, Satoru Tanaka, Toshiyuki Takagi
- 262 Tokyo Institute of Technology / Masanori Aritomi
- 271 Nagoya University / Kenji Morita
- 273 Kyoto University / Kiyoshi Yoshikawa
- 277 Osaka University / Akito Takahashi
- 282 Kyushu University / Takeo Muroga

ON THIS COVER

(Continued)

In acknowledgment of the theme of this issue, the artist has rendered a *suiboku* (ink and water) painting of a bamboo stalk. Overlaying the sun of Japan is a poem he composed and lettered in the *haiku* style to symbolize nuclear fusion: "Shimmering twilight/quiet glow/awesome star fires/within our grasp."

CONTENTS / MARCH 1990-VOL. 17, NO. 2

(Continued)

- 286 Toyama University / Kuniaki Watanabe
- 288 Japan Atomic Energy Research Institute / Masahiro Seki, Hiroshi Yoshida, Tomoo Nakamura, Hitoshi Watanabe, Hiroshi Kudo
- 298 Mitsubishi Heavy Industries, Ltd., and Mitsubishi Atomic Power Industries, Inc. / Naoto Asami, Mitsuru Tomita, Kazuhiro Nagashima, Katsusuke Shimizu, Kimihiro loki, Masao Yamada, Hiroaki Akiyama
- 303 Toshiba Corporation / Yoshio Sawada, Ken-ichi Kakizawa
- 308 Hitachi, Ltd. / Nobuyuki Morino, Taro Iwamoto, Yoshitaka Gotoh
- 310 Kawasaki Heavy Industries, Ltd. / Takeshi Kobayashi

OVERVIEW

316 Bibliography of Fusion Product Physics in Tokamaks / Lee M. Hively, D. J. Sigmar

COLD FUSION TECHNICAL NOTES

- 343 On Cold Fusion / Bernard I. Spinrad
- 344 An Analysis of Cold and Lukewarm Fusion / Mario Rabinowitz, David H. Worledge
- **350** Examination of Cathodically Charged Palladium Electrodes for Excess Heat, Neutron Emission, or Tritium Production / *Harold Wiesmann*

DEPARTMENTS

- 219 Authors
- 355 Meeting Reports

Summary of Topical Conference on Surface Conditioning of Vacuum Systems, Los Angeles, California, April 3–5, 1989 / Robert A. Langley

Summary of the Fifth International Conference on Emerging Nuclear Energy Systems, Karlsruhe, Federal Republic of Germany, July 3–6, 1989 / *Greg Cripps*

Summary of the Tritium and Advanced Fuels in Fusion Reactors Course and Workshop, Varenna, Italy, September 6–14, 1989 / W. J. Holtslander

361 Book Reviews

Large Ion Beams: Fundamentals of Generation and Propagation / reviewed by *E. Bickford Hooper, Jr.*

Computational Plasma Physics: With Applications of Fusion and Astrophysics / reviewed by *Dennis W. Hewett*

364 Corrigendum