

## PROCEEDINGS AT THE 924TH GENERAL MEETING

The 924th General Meeting of the Academy was held on Monday, December 14, 1998, at 1:00 p.m., Dr. Yoshio FUJITA, President, taking the chair. Ninety-six members were present, and the following communications were made:

- Japan and Anglo-American special relationship . . . . . Chihiro HOSOYA, M. J. A.  
 Last visit of Saint-Savin Church November 1998 . . . . . Itsuji YOSHIKAWA, M. J. A.  
 My Copernican change—What is force? . . . . . Isao IMAI, M. J. A.  
 Polymerization of methyl methacrylate catalyzed by tantalum-diene complexes,  $Ta(\eta^5-C_5R_5)(\eta^4-1,3-$   
 $butadiene)_2$  ( $R=H$  and  $Me$ ), in the presence of cotatalyst  $AlMe(OC_6H_2-2,6-(tBu)_2-4-Me)_2$  . . . . .  
 . . . . . Kazushi MASHIMA, Yutaka MATSUO, and Kazuhide TANI  
 Communicated by Seizo OKAMURA, M. J. A.  
 Changes of immunoreactive substance P level in mouse ear treated with capsaicin . . . . .  
 . . . . . Hideo INOUE, Nobuyuki NAGATA, Hiroshi KAJIGAYA, and Yasuko KOSHIHARA  
 Communicated by Masanori OTSUKA, M. J. A.  
 Zinc finger proteins of the archaebacterial origin . . . . .  
 . . . . . Tomoko YAMASAKI, Jörg Michael SUCKOW, Kazuhiko YAMASAKI, and Masashi SUZUKI  
 Communicated by Setsuro EBASHI, M. J. A.  
 On smooth projective threefolds with non-trivial surjective endomorphisms . . . . .  
 . . . . . Yoshio FUJIMOTO and Eiichi SATO  
 Dynamics of composite mappings . . . . . Pei-Chu HU and Chung-Chun YANG  
 An analogue of the Hardy theorem for the Cartan motion group . . . . .  
 . . . . . Masaaki EGUCHI, Shin KOIZUMI, and Keisaku KUMAHARA  
 On Bougerol and Dufresne's identities for exponential Brownian functionals . . . . .  
 . . . . . Hiroyuki MATSUMOTO and Mark YOR  
 Above four, communicated by Heisuke HIRONAKA, M. J. A.  
 On totally real cubic fields whose unit groups are of type  $\{\theta + r, \theta + s\}$  . . . . . Kenji MINEMURA  
 On the vanishing of Iwasawa invariants of certain cyclic extensions of  $\mathbf{Q}$  with prime degree  $l$  . . . . .  
 . . . . . Takashi FUKUDA  
 On the  $\mathbf{Z}_3$ -extension of a certain cubic cyclic field . . . . . Keiichi KOMATSU  
 Power series and asymptotic series associated with the Lerch zeta-function . . . . . Masanori KATSURADA  
 Above four, communicated by Shokichi IYANAGA, M. J. A.  
 Establishment of poly(ADP-ribose) polymerase-deficient mouse embryonic stem cell lines . . . . .  
 . . . . . Mitsuko MASUTANI, Tadashige NOZAKI, Eiko NISHIYAMA,  
 Takahiro OCHIYA, Hitoshi NAKAGAMA, Keiji WAKABAYASHI, Hiroshi SUZUKI, and Takashi SUGIMURA, M. J. A.

After a recess during which the members present met in their respective Sections, the General Meeting was resumed for business transactions.

First, the President announced that Dr. Otto Herzberg FRANKEL, Honorary Member, had passed away on November 21, 1998. The members rose from their seats in silence, expressing profound sence of grief.

Next, Dr. Eiichi HOSHINO, M. J. A., and Masao SEKINE, M. J. A., paid a tribute of admiration to the late Dr. Saburo KURUSU's and Dr. Rokurō KŌNO's meritorious services to academic circles, respectively.

Next, the Chairmen of both Sections made reports of the matters dealt with at the respectively Sectional Meetings.

Then, a recommendation submitted by Section II to elect Sir Aaron KLUG (Structural Biology) an Honorary Member of the Academy was approved unanimously.

Finally, the recommendations of both Sections for the new Membership of the Academy, were accepted unanimously. The new members elected are:

Section I: Akira YAMADA (Medieval Philosophy), Katsuro UEYANAGI (Commercial Law), Rokuya SUZUKI (Civil Law), Teiichiro NAKANO (Civil Procedural Law), Shigeru ISHIKAWA (Development Economics), Hiroshi MIZUTA (History of Social Thought), Takashi NEGISHI (Economic Theory, History of Economic Thought).

Section II: Shigefumi MORI (Mathematics (Algebraic Geometry)), Kenichi HONDA (Applied Chemistry).

The Meeting adjourned at 5:00 p.m.

# 日本学士院紀要

平成10年12月 第74巻A 第10号

平成11年1月5日 印刷

平成11年1月8日 発行

編集兼者 日本学士院  
発行 株式会社 東京プレス  
〒110-0007 東京都台東区上野公園7-32

印刷者 株式会社 東京プレス  
〒174-0075 東京都板橋区桜川2-27-12

# PROCEEDINGS OF THE JAPAN ACADEMY

## SERIES A MATHEMATICAL SCIENCES

---

### CONTENTS

#### Papers Communicated:—

	Page
E. SATO and Y. FUJIMOTO: On smooth projective threefolds with non-trivial surjective endomorphisms . . . . .	143
P.-C. HU and C.-C. YANG: Dynamics of composite mappings . . . . .	146
M. EGUCHI, S. KOIZUMI, and K. KUMAHARA: An analogue of the Hardy theorem for the Cartan motion group . . . . .	149
H. MATSUMOTO and M. YOR: On Bougerol and Dufresne's identities for exponential Brownian functionals . . . . .	152
K. MINEMURA: On totally real cubic fields whose unit groups are of type $\{\theta + r, \theta + s\}$ . . . . .	156
T. FUKUDA: On the vanishing of Iwasawa invariants of certain cyclic extensions of $\mathbf{Q}$ with prime degree II . . . . .	160
K. KOMATSU: On the $\mathbf{Z}_3$ -extension of a certain cubic cyclic field . . . . .	165
M. KATSURADA: Power series and asymptotic series associated with the Lerch zeta-function . . . . .	167
<b>Proceedings at the 924th General Meeting . . . . .</b>	<b>XXXIX</b>