CONTENTS

Preface

Ryoji NOYORI

Messages

The Chemical Society of Japan in the First Decade of the 21st Century

Hiizu IWAMURA

Realizing the Potential of Japan's New Chemical Technology

Hiromichi SEYA 3

A Glorious Future for Chemistry

P. S. STEYN

The 25-Year Involvement of the Chemical Society of Japan with the Federation of Asian Chemical Societies

Barry N. NOLLER

A Strong Partnership Enters a New Global Era

Elsa REICHMANIS 8

A Glorious Future

Sir Harold KROTO 10

125 Years of the Chemical Society of Japan - 125 Years of Prospering Science

Fred Robert HEIKER 12

Rising Sun in Chemistry

François MATHEY 14

Has Chemistry a Future?

Giovanni NATILE 16

The Korean Chemical Society Seeks a Closer Relationship with the Chemical Society of Japan

Sang-Chul SHIM 1

Congratulations on Your Achievements and Plans for the Future

John Christopher VEDERAS 20

CHAPTER 1 Prominent Achievements 23
Discovery of Ephedrine by a Father of Chemistry in Japan
Masayuki SHIBUYA 25
Isolation and Identification of Adrenalin
Tadashi WATANABE 26
How a Theoretical / Physical Chemist Launched an Industry
Toru IKEDA 27
With an Earnest Wish for the Japanese People to Grow Up
Kenji MORI 28
Superb Organic Chemist and Founder of Chemistry Database
Yusaku IKEGAMI 29
Revolution in Electroanalytical Chemistry
Mitsugi SENDA 30
Establishment of the Concept of Rotational Isomerism in Molecules
Mitsuo TASUMI 31
Just Unexpected — Invention of Ferrite Materials Tadashi WATANABE 32
Dawn of the Chemistry of Nonbenzenoid Aromatic Compounds
Toyonobu ASAO 33
A Prelude to Modern Understanding of the Origin
of Colors in Metal Complexes
Sumio KAIZAKI 34
Which is Beautiful, the Girl or the Flower?
Norio ISE and Kyoichiro SHIBATANI 35
On the Front Line of Biochemical Research
Makoto KAGEYAMA 36
Discovery of Electrical Conductivity in Organic Materials
Hiroo INOKUCH and Mizuka SANO 37
A Tandem Research Group Tackling Antibiotics
Kuniaki TATSUTA 38
Isolation and Structural Determination of Tetrodotoxin,
the Potent Neurotoxin of Puffer Fish
Kiyoyuki YAMADA 39
Professor Ken-ichi Fukui and the Frontier Orbital Theory

40

Kazuyoshi TANAKA

Hisashi YAMAMOTO 50
The Unexpected Fruit of Persistent Work
Masami SAWADA and Hiroshi YAMAOKA 53
Chemicals by Sophisticated Technologies 55
Functional Polymer Materials and Their Unique Applications 58
Performance Materials and Their Amazing Applications 61
Environment Protection Technologies 64
Chemicals and Materials for the Information and Electronics Industries 62
Chemicals and Materials for the information and Electronics industries
CHAPTER 2 CSJ Today 71
I. Membership, Organization, and Budget 73
1. Membership 73
2. Organization 74
3. Budget 78
II. Activities 79
1. Annual Meetings 79
2. International Relations 83
4. Publications 94
5. Publicity 103
6. Education 108
7. Environmental Issues 112
8. Awards 117

The Chemical Roles of Electrons and Their Spins

Metallic Luster of Polyacetylene Film Drawing

43

Conduct Research in a Fresh-Scent and Straightforward Way

45

Keitaro YOSHIHARA

Koichi NARASAKA

Kazuo AKAGI

Catch the Interesting while Running

the Gold Medal of the Nobel Prize

CHAPTER 3 Chronology / Presidents 119

Appendix 157

Recipients of the CSJ Award (1948-2002) 159

Directory of World Chemical Societies 179

From the Publication Committee 195