

# CONTENTS

<b>INTRODUCTION</b> .....	1
<b>MEMORIALS 2011</b> .....	3
<b>HIGHLIGHTS</b>	
1. Atomic and Molecular Science .....	12
2. Materials Science .....	14
3. Chemical and Environmental Science .....	32
4. Earth and Planetary Science .....	40
5. Life Science .....	44
6. Imaging and Optics .....	56
7. Instrumentation and Methodology .....	58
8. Accelerators .....	62
<b>EXPERIMENTAL FACILITIES</b>	
1. Newly Developed Experimental Facilities .....	67
2. Structural Biology Research Center .....	70
3. Condensed Matter Research Center .....	76
4. The Slow Positron Facility .....	80
5. IMSS Instrument R&D Team .....	83
6. Summary of Experimental Stations .....	84
<b>ACCELERATORS</b>	
1. Outline of the Accelerators .....	97
2. PF Ring .....	100
3. PF-AR.....	108
<b>FUTURE LIGHT SOURCE</b>	
1. ERL Project Overview .....	113
2. 3-GeV ERL .....	116
3. cERL .....	119
<b>USERS PROGRAM &amp; OUTREACH ACTIVITIES</b>	
1. Experimental Proposals .....	131
2. Workshops and Seminars .....	134
3. Graduate School Education.....	135
4. International Collaboration .....	136
5. Photon Factory Science Advisory Committee (PF-SAC) .....	138
<b>APPENDICES</b>	
1. Site and Organization .....	140
2. Awards .....	148
3. Theses .....	150
4. Publication List .....	152