

Preface

Ryosuke Kadono, Head of CMRC

We are pleased to deliver the Annual Report 2017 of the Condensed Matter Research Center (CMRC). In this volume, progresses made in the fiscal year 2017 for five bottom-up research projects and three contracted projects are reported. The bottom-up projects were running into the third year since their start in the fall of 2015, shaping their research targets up in the studies of specific compounds and materials using multiple quantum beams. You will find highlights of research results over a variety of fields including those for bismuth sulfides and cuprate superconductors, organic antiferroelectric materials, heterostructured oxides, and silicon under shock-wave compression.

The three ongoing contracted research projects directly funded by the MEXT were gradually approaching the final stage. In particular, the Tribology project was in the last year of the five-year term, enjoying a good crop of scientific results toward the end of the project. Meanwhile, the Element Strategy Initiative to Form Core Research Centers, for which the two remaining projects are serving as hubs for material analyses, has been narrowing down the research target to develop materials viable for practical use. It is hoped that the CMRC projects will overcome the imposed challenge on quantum beams in the years to come.

Finally, I would like to appreciate all the Project Leaders for contributing to this REPORT, and express my gratitude to Ms. Y. Koito for her editorial work.

片野 良介

