

Sustainable Humanosphere

BULLETIN OF
RESEARCH INSTITUTE FOR SUSTAINABLE HUMANOSPHERE
KYOTO UNIVERSITY

No. 5

September 2009



PUBLISHED BY
RESEARCH INSTITUTE FOR SUSTAINABLE HUMANOSPHERE
KYOTO UNIVERSITY
UJI, KYOTO 611-0011, JAPAN



‘Sustainable Humanosphere’ is a serial publication issued annually by the Research Institute for Sustainable Humanosphere (RISH) of Kyoto University, which aims to provide a report on the ongoing research at our Institute along with new research field of sustainable humanosphere. This journal is a continuation of ‘Wood Research’ published by Wood Research Institute of Kyoto University, which will be distributed free of charge and prefers to exchange similar articles with scientific institutions and libraries throughout the world. All communications concerning ‘Sustainable Humanosphere’ should be addressed to Research Institute for Sustainable Humanosphere (RISH), Kyoto University, Uji 611-0011, Japan. (Email: oubunshi@rish.kyoto-u.ac.jp)

Editorial Board

Mamoru Yamamoto

Tomoya Imai

Toshiro Morooka

Fumio Tanaka

Kunio Tsunoda

Hirotsugu Kojima

Toshimitsu Hata

Kei’ichi Baba

Masayuki Yamamoto

Tomohiko Mitani

Akihisa Kitamori

C O N T E N T S

Recent research activity	1
Prize	14
Abstract (PhD thesis)	16
Abstract (Master Thesis)	30
Publications	57

Sustainable Humanosphere 第5号

発 行 日 平成21年9月10日

編集兼発行者 京都大学 生存圏研究所
京都府宇治市五ヶ庄

印 刷 所 ユニバース印刷
京都府長岡京市友岡 2-10-2