



International Journal of Science and Engineering (IJSE) 3(1), April 2012

Aims and Scope _____

International Journal of Science and Engineering (IJSE) aims to be the principal international journal for publication of high quality, original papers in the branches of science and engineering. Papers showing how research results can be used in science and engineering design, and accounts of experimental or theoretical research work bringing new perspectives to established principles, highlighting unsolved problems or indicating directions for future research, are particularly welcome. Contributions that deal with new developments in plant or processes and that can be given quantitative expression are encouraged.

The journal publishes regular special issues focusing on specific topics scholarly open access, peer-reviewed, interdisciplinary, half yearly and fully refereed journal focusing on theories, methods and applications in science and engineering.

The journal covers all areas of Science and Engineering, publishing refereed original research articles and technical notes. The journal reviews papers within approximately two months of submission and publishes accepted articles on either in the internet and printed paper half yearly upon receiving the final versions.

Peer Review Process _____

All submitted articles should report original, previously unpublished research results, experimental or theoretical, and will be peer-reviewed. Articles submitted to the journal should meet these criteria and must not be under consideration for publication elsewhere. Manuscripts should follow the style of the journal and are subject to both review and editing.

IJSE Journal [ISSN: 2086-5023], half yearly publication, Commencement 2010
Publisher: Department of Chemical Engineering, University of Diponegoro,
Jl. Prof. Sudarto SH No. 1 Tembalang Semarang, Central Java, Indonesia

Copyright 2012, IJSE Journal, ISSN: 2086-5023



International Journal of Science and Engineering (IJSE)

3(1), April 2012

Editorial Team _____

1. [Assoc. Prof. Dr. Budiyo](#), Department of Chemical Engineering, Diponegoro University Semarang, Central Java, Indonesia
2. [Dr. Tutuk Djoko Kusworo](#), Departement of Chemical Engineering, Faculty of Engineering, University of Diponegoro Semarang Central Java, Indonesia
3. [Prof. Dr. Ir. Sunarso MS](#), Faculty of Animal Agriculture, University of Diponegoro Semarang Central Java, Indonesia
4. [Prof. Dr. Abdullah M. Busyairi](#), Department of Chemical Engineering, University of Diponegoro, Semarang, Central Java, Indonesia

International Advisory Scientific Committee _____

[Prof. Dr. Ahmad Fauzi Ismail](#), Advanced Membrane Research Unit, University Technology of Malaysia, Malaysia

[Prof. Takeshi Matsura](#), Ottawa University, Canada

[Assoc. Prof. Dr. Amir Mansourizadeh](#), Chemical Engineering Department, Islamic Azad University, Gachsaran, Islamic Republic of Iran

[Assoc. Prof. Jing Liu](#), Graduate School of Environment and Energy Engineering, Waseda University, Tokyo, Japan

[Dr. Abdul Halim](#), FKKSA, University of Technology Malaysia, Malaysia

[Dr. Enya Listiani Dewi](#), The Agency for Assessment and Application of Technology, Indonesia

[Prof. Gundavarapu Mallikarjuna Rao](#), Department of Computer Science and Engineering, Gokaraju Rangaraju College of Engineering and Technology Hyderabad, India

IJSE Journal [ISSN:2086-5023], half yearly publication, Commencement 2010
Publisher: Department of Chemical Engineering, University of Diponegoro,
Jl. Prof. Sudarto SH No. 1 Tembalang Semarang, Central Java, Indonesia

Copyright 2012, IJSE Journal, ISSN: 2086-5023



International Journal of Science and Engineering (IJSE) 3(1), April 2012

Preface

International Journal of Science and Engineering (IJSE) [ISSN:2086-5023] Volume 3 Number 1 Year 2012 aims to be the communication media of all scientist in science and engineering field for publishing high quality and original papers. In this issue, we highlight the articles related to: Studying the Behaviour of Model of Mirror Neuron System in Case of Autism; On the New Algorithm of Testing and Comparing Size Corrected Powers for Testing Multivariate Normality; The Effect of King Grass Silage on the Nitrogen Balance and Hematological Profile of Ettawa Grade Male Goat; The Effects of Amofer Palm Oil Waste-based Complete Feed to Blood Profiles and Liver Function on Local Sheep; The Characteristic of Heat Pump Dehumidifier Drier in the Drying of Red Chili (*Capsium annum* L); Effect of complete feed starch banana weevil pea stone on the beans goats system in vivo against carcass weight and carcass part; Methane Emission from Digestion of Palm Oil Mill Effluent (POME) in a Thermophilic Anaerobic Reactor.

Website address of IJSE journal is: <http://ijsejournal.com>, while website address for Online Submission System is: <http://ejournal.undip.ac.id/index.php/ijse>. The journal publishes regular special issues focusing on specific topics scholarly open access, peer-reviewed, interdisciplinary, half yearly and fully refereed journal focusing on theories, methods and applications in science and engineering. However, Authors may pay some processing fees once their articles has been accepted. The research articles submitted to the IJSE journal will be peer-reviewed by at least two reviewers. Accepted research articles will be available online (free download). Language used in this journal is English.

Editor would like to appreciate all researchers, academicians, industrial practitioners focused on science and engineering to contribute to this online journal. Papers showing how research results can be used in science and engineering design, and accounts of experimental or theoretical research work bringing new perspectives to established principles, highlighting unsolved problems or indicating directions for future research, are particularly welcome for further edition. Contributions that deal with new developments in plant or processes and that can be given quantitative expression are encouraged.

IJSE Journal [ISSN:2086-5023], half yearly publication, Commencement 2010
Publisher: Department of Chemical Engineering, University of Diponegoro,
Jl. Prof. Sudarto SH No. 1 Tembalang Semarang, Central Java, Indonesia

Copyright 2012, IJSE Journal, ISSN: 2086-5023



International Journal of Science and Engineering (IJSE) 3(1), April 2012

Table of Contents

1. Cover	o
2. Aims and Scopes, Peer Review Process, Editorial Boards	i
3. Editorial Boards	ii
4. Preface	iii
5. Table of Contents	iv
6. Studying the Behaviour of Model of Mirror Neuron System in Case of Autism. <i>Shikha Anirban, Mohammad Hanif Ali</i>	1-7
7. On the New Algorithm of Testing and Comparing Size Corrected Powers for Testing Multivariate Normality. <i>Sima Rani Dey, A.K. Majumder</i>	8-12
8. The Effect of King Grass Silage on the Nitrogen Balance and Hematological Profile of Ettawa Grade Male Goat. <i>Sunarso</i>	13-16
9. The Effects of Amofer Palm Oil Waste-based Complete Feed to Blood Profiles and Liver Function on Local Sheep. <i>Hamdi Mayulu, Sunarso, C. Imam Sutrisno, Sumarsono</i>	17-21
10. The Characteristic of Heat Pump Dehumidifier Drier in the Drying of Red Chili (<i>Capsium annum L</i>). <i>Tjukup Marnoto, Endang Sulistyowati, Mahreni, M. Syahri</i>	22-25
11. Effect of complete feed starch banana weevil pea stone on the beans goats system in vivo against carcass weight and carcass part. <i>Aswandi, C. I. Sutrisno, M. Arifin, Joelal Achmadi</i>	26-31
12. Methane Emission from Digestion of Palm Oil Mill Effluent (POME) in a Thermophilic Anaerobic Reactor. <i>Irvan, Bambang Trisakti, Vivian Wongistani, Yoshimasa Tomiuchi</i>	32-35
13. The Effect of Clenbuterol on Growth Performance of Growing Male Pig. <i>Wayan Sukarya Dilaga</i>	36-39
14. Submission Information	40
15. Authors Guideline	41