



RECTOR
UNIVERSITAS SEBELAS MARET SURAKARTA

**International Conference and Exhibition on Sustainable Energy and Advanced
Material (ICESEAM 2011)**

Dear:

Ir. Joko Widodo, as Walikota Solo city

Prof. Dr. Razali, Dekan UTeM Malaysia

Prof. Madya Juhari, Timbalan Dekan Academic UTeM

Prof. Madya Ahmad Rifai, Timbalan Dekan Penyelidikan UTeM

Dr. Taswanda Taryo, Deputy PHLPN Batan,

Prof. Dr. Heru Setyawan, Pakar Nano Technology

Prof. Suranto, Ph.D as A Director Pasca Sarjana UNS

Dean Faculty of Tecnic UNS, Prof. Dr. Kuncoro Dihadjo

Dean Faculty of Mathematic and Natural Sains, Prof. Ari Handono, Ph.D

The socio-economic system of the world is now driven by energy. Very few advances made in the past two centuries would be possible without the large-scale exploitation of fossil fuels. Therefore, efforts to shift from a fossil fuel-based economy to the one hinged on sustainability are now substantial, requiring advances in basic sciences (such as materials, electrochemistry, and heat transfer), system engineering (mechanical, electrical, chemical, buildings, communication and information), and all the way to international policy makers.

The evolution of new energy technologies and systems cannot follow the compartmentalized model that indeed worked so well in the past, because of the time constraints imposed by oil depletion and climate change. All parts of the new

energy economy are strongly interlinked, and researchers in the field must be aware of the entire enterprise to maximize their own contribution.

UNS as one of the stake holders in contributing expansion of sustainable energy and advanced material development has a big commitment to grow up conducive environment in research activities. One form of the commitment is the allocation of research fund as much as 10% of the annual budget, totalling to IDR 25 billions. Also, UNS has been authorized to select our researchers to win the grant from DP2M DIKTI. For that reason, we are now ready with the grand design of research activities that will work until 2025.

Ladies and gentlemen

This conference is one of the results of our good partnership with Universiti Teknikal Melaka Malaysia (UTeM), that we have just initiated. In addition to this conference, I do encourage all schemes of academic collaborations. Another coming collaboration with UTeM will be scholar & student exchange, credit transfer, and of course collaborative research.

Finally, I as the rector of UNS is proud to officially open this prestigious *International Conference and Exhibition on Sustainable Energy and Advanced Material*. We wish ICESEAM 2011 gives huge benefits for Science and Technology Achievement especially in the field of sustainable energy and advanced material in Indonesia as well as in the world.

Thank you

Prof. Dr. Ravik Karsidi, MS
Rector, Sebelas Maret University