



INTERNATIONAL CONFERENCE

AGRICULTURE FOR FOOD AND SUSTAINABLE ENERGY

**PROCEEDINGS OF THE CONFERENCE
15 - 17 DECEMBER 2009
UNIVERSITY OF SUMATERA UTARA
MEDAN - INDONESIA**

EDITORS :
T. Chairun Nisa B
T. Sabrina
Diana Chalil
Johan Agustian

**Penerbit
Pustaka Bangsa Press
Medan
2011**



Repository University Of Riau

PERPUSTAKAAN UNIVERSITAS RIAU

<http://repository.unri.ac.id/>



Hapsok



**INTERNATIONAL CONFERENCE ON
AGRICULTURE FOR FOOD
AND SUSTAINABLE ENERGY**

PROCEEDINGS OF THE CONFERENCE

**15 - 17 DECEMBER 2009
UNIVERSITY OF SUMATERA UTARA
MEDAN - INDONESIA**

EDITORS

**T. Chairun Nisa B
T. Sabrina
Diana Chalil
Johan Agustian**

Editorial Board : T. Chairun Nisa B
T. Sabrina
Diana Chalil
Johan Agustian

Organizing Committee :

Advisor : Prof. dr. Chairuddin P Lubis, DTM&H, Sp.A(K)
Prof. Richard Guthrie, Ph.D
Prof. Dr. Ir. Sumono, MS
Prof. Dr. Ir. T. Chairun Nisa B, M.Sc

Chairman : Prof. Dr. Ir. A. Rahim Matondang, MSIE

Vice Chairman : Dr. M. Pandapotan, MPS

Secretary : Dr. Ir. T. Sabrina, M.Sc

Members : Prof. Dr. Ir. Rosmayati, MS

Dr. Ir. Diana Chalil, MS

Dr. Ir. Hamidah Hanum, MS

Ir. E. Sartini Bayu, MP

Ir. M. Madjid D. Damanik, M.Sc

Ir. Nasier, M.Si

Radhiatun Mardiah, SE, M.Si

M. Safii Murad Daulay, SE

Dalilah, SE

T. Elfizar, SH

Ir. Nurelza Siregar

Johan Agustian, SH

Teta, ST

Nanang Hermanto, SE

Ferry Norlanza, SE

Safnia

Siswanto SP, SH

Dede Setiawati, SE

Wiwik Kusdiningsih, SE

Farisna, SE

Anita Zoelisa, SH

Arwan

Herdianto Prabudi, Amd

Akhmad Iqbal