RISTEKDIKTI

FORUM DIREKTUR POLITEKNIK NEGERI SE-INDONESIA FDPNI

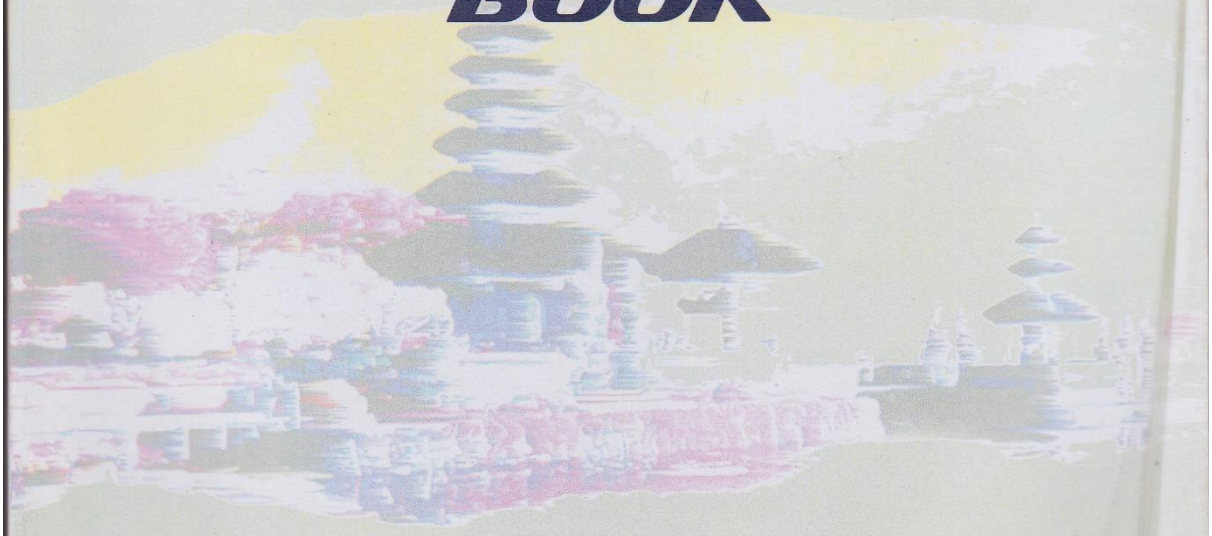
Host: POLITEKNIK NEGERI BALI

ICAST 2019 INDONESIAN POLYTECHNICS

International Conference on Applied Science and Technology

Applied Research in Green Development Through Millennial Industrialization: Challenges in Balancing Economics Advancement

PROGRAM BOOK



Bali Nusa Dua
CONVENTION CENTER
24-25 October 2019

Hal 158

RISTEKDIKTI

FORUM DIREKTUR POLITEKNIK NEGERI SE-INDONESIA FDPNI

ICAST 2019 INDONESIAN POLYTECHNICS

International Conference on Applied Science and Technology

Applied Research in Green Development Through Millennial Industrialization: Challenges in Balancing Economics Advancement

Organized by: Indonesian Polytechnic Forum

POLTERA

POLBAN

POLITEKNIK NEGERI BALI

POLITEKNIK NEGERI Batam

Bali Nusa Dua
CONVENTION CENTER
24-25 October 2019

Table of Content

Paper ID : 1570590466

Environmentally Friendly Tool for Smoking Skipjack Fish

Leonard Tawalujan (Manado State Polythecnic, Indonesia)
Daisy Sundah (Manado State Polythecnic, Indonesia)

Abstract : The purpose of this study is to promote the production of smoked fish in the use of green-technology process. This study has used a method of an experimental research in which to examine and to know the heat transfer occurs in the smoked-fish device from the outer space, therefore the oven and the amount of water is lost in the processed skipjack fish. Conduction Heat Transfer, Convection Heat Transfer, and Radiation have been used in analysing the technology process of this machine. The results highlighted the importance of green-technology in processing smoked fish products. This study found that a smoked fish machine has reduced air pollution and produced liquid smoke. There are 3 stages in processing smoked skipjack fish with clean technology, namely: (1) furnaces, (2) the application of the smoke stream, (3) the condenser tank. The evaporation process begins by placing fish onto shelves in the furnace. Then fuel is put into the furnace and burned. Once the fuel is burned, the supply of oxygen in the furnace is controlled, so that the smoke which usually causes air pollution can be converted into liquid smoke using a condenser