

The International Gas Turbine Congress 2003 Tokyo

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- TS-090 A Study of Performance on Advanced Humid Air Turbine Systems
S. Higuchi (Hitachi, Ltd.), S. Hatamiya, N. Seiki, S. Marushima
- TS-091 High Fogging Tests and Performance Model for High Fogging
J. Hoffmann (Alstom (Schweiz) AG, Switzerland), C. Ojo
- TS-092 Outstanding Operational Behavior of Taylor-Made Nonwovens Filters for Intake Air Filtration of Gas Turbines
M. Schmidt (Freudenberg & Vilene Nonwovens (Suzhou) Co., Ltd., P.R.China), S. Berbner, A. Klink, M. Waldenmaier, R. Schulz

Session E-7 Combustor Design

- TS-143 Investigation of Cooling Structure with MGC Material for a High Temperature Gas Turbine Combustor
T. Hagari (Kawasaki Heavy Industries, Ltd.), K. Ishida, Y. Kinoshita
- TS-144 Effect of Primary Equivalence Ratio on Reducing both Fuel-NO_x and Thermal-NO_x Emissions of the Gas Turbine Combustor for Oxygen-blown IGCC with Hot/Dry Syngas Cleanup
T. Hasegawa (Central Research Institute of Electric Power Industry), M. Sato
- TS-145 Numerical/Experimental Methodology for the Retrofitting of Combustion Chambers for Gas Turbines
F. Martelli (The University of Florence, Italy), G. Riccio, P. Adami, G. Benelli, G. Tanzini
- TS-134 Numerical Prediction of Turbulent Combustion Flows in Staged Combustor Using LES and Extended G-Equation
T. Tominaga (The University of Tokyo), Y. Itoh, N. Taniguchi, T. Kobayashi, T. Hagari, Y. Nonaka

- Session E-8 Optimization & Inverse Method**
- TS-034 New Quasi-3D Inverse Navier–Stokes Based Method Used to Design Highly Loaded Axial Compressor Stages
V. I. Mileschin (Central Institute of Aviation Motors, Russia),
S. K. Shchipin, A. N. Startsev
- TS-035 Geometry Optimization of Turbine Blade with Surface Injection
T. Nagumo (Tokyo University of Science), K. Toda, M. Yamamoto
- TS-036 The Development of a Genetic Algorithm Code for Secondary Flow Injection Optimization in Axial Turbines
C. F. F. Favaretto (Iwate University), K. Funazaki, T. Tanuma
- Session F-1 Forum: Wave Rotor 1**
- FR-301 Preliminary Design Procedure for Gas Turbine Topping Reverse–Flow Wave Rotors
P. Akbari (Michigan State University, USA), N. Müller
- FR-302 Introductory Investigation of Micro Wave Rotor
K. Okamoto (The University of Tokyo), T. Nagashima, K. Yamaguchi
- FR-303 Internal Combustion Wave Rotors for Gas Turbine Engine Enhancement
R. Nalim (Indiana University Purdue University Indianapolis (IUPUI), USA), K. Pekkan
- Session F-2 Forum: Wave Rotor 2 Oral Presentations**
- FR-304 Some thermodynamic studies on turbojet equipped with a Wave Rotor
Y. Ribaud (ONERA, France)
- FR-305 Autonomous Pressure Wave Compressor Device
J. Piechna (Warsaw University of Technology, Poland)
- FR-306 The General Compatibility Conditions of the Nonstationary Compressible Flow in Stationary Periodic and Materially Balanced Pressure Wave Machine
H. A. Nour Eldin (University of Wuppertal, Germany)
- FR-307 Wave Rotors–A Historical Review including the Early Work on Pressure Exchanger of Power Jets Ltd
J. A. C. Kentfield (University of Calgary, Canada)
- Session F-3 Throughflow Modeling**
- TS-050 Theory and Design of the Regenerative Flow Compressor
A. Engeda (Michigan State University, USA), M. Raheel
- TS-051 Flow in a High Speed Compressor Due to Axisymmetric Tip Clearance
H. S. Joo (Seoul National University, Korea), S. J. Song
- TS-052 The Reduced Order Through–Flow Modeling of Axial Turbomachinery
O. Dubitsky (Concepts NREC, USA), A. Wiedermann, T. Nakano,
J. Perera
- Session F-4 Diagnostics, Control & Measurement 1**
- TS-001 Fault Diagnosis System for an Industrial Gas Turbine by Means of Neural Networks
J. Arriagada (Lund University, Sweden), M. Genrup, A. Loberg,
M. Assadi
- TS-002 A Study on Intelligent Performance Diagnostics of a Gas Turbine Engine Using Neural Networks
C. D. Kong (Chosun University, Korea), J. Y. Ki, M. C. Kang, S. H. Kho
- TS-003 Neural Networks for the Study of Gas Turbine Engines Air System
G. Torella (Italian Airforce Academy, Italy), F. Gamma, G. Palmesano
- TS-004 Statistical Analyses to Improve Gas Turbine Diagnostics Reliability
R. Bettocchi (University of Ferrara, Italy), M. Pinelli, P. R. Spina,
M. Venturini

- Session F-5 Diagnostics, Control & Measurement 2**
- TS-005 Detection and Prediction of the Performance Deterioration of a Turbofan Engine
 L. Marinai (Cranfield University, United Kingdom), R. Singh, B. Curnock, D. Probert
- TS-006 Performance Analysis and Diagnostics of a Small Gas Turbine
 J. Yin (Cranfield University, United Kingdom), M. S. Li, W. M. Huang
- TS-007 A Study on Applying Nonlinear Control to Gas Turbine Systems
 M. Ashikaga (Kawasaki Heavy Industries, Ltd.), Y. Kohno, M. Higashi, K. Nagai, M. Ryu
- TS-153 The Development of Operation System of a Liquid-fueled Micro Gas Turbine
 Y. Mori (The University of Tokyo), S. Kaneko, T. Watanabe
- TS-008 Numerical Correction of Pyrometry Data from Gas Turbines
 J. Nickel (Technical University Berlin, Germany), H. Pucher, M. Lüdtkke
- Session F-7 Performance Analysis of Gas Turbines & New Systems**
- TS-086 A Comparative Investigation of Reheat in Gas Turbine Cycles
 K. Sarabchi (University of Tabriz, Iran)
- TS-087 A Novel LNG and Oxygen Stoichiometric Combustion Cycle without CO₂ Emission
 W. Wang (Chinese Academy of Sciences, P.R.China), R. Cai, N. Zhang, H. Jin
- TS-089 Off-Design Analysis of the GRAZ Cycle Performance
 A. Miller (Warsaw University of Technology, Poland), J. Lewandowski, K. Badyda, S. Kiryk, J. Milewski, J. Hama, N. Iki
- Session F-8 Performance Analytic Modellings & Tool**
- TS-093 Thermodynamic Table for Performance Calculations in Gas Turbine Engine
 M. Iwai (Shenyang Institute of Aeronautical Engineering, P. R. China)
- TS-094 Low Bypass Ratio Turbofan Performance Modelling with Fan Radial Flow Profiles
 M. S. Li (Cranfield University, United Kingdom), J. F. Yin, B. Curnock
- TS-095 An Improved Analytic Model to Predict Fouling Phenomena in the Axial Compressor of Gas Turbine Engines
 T. W. Song (Seoul National University, Korea), J. L. Sohn, T. S. Kim, J. H. Kim, S. T. Ro