

Biography

Name: Shuichi TORII

Sex: Male

Data of Birth: January 27, 1960

Highest Degree: Ph.D. Mechanical Engineering,
Kyushu University, JAPAN

Professional Specialty: Heat Transfer, Fluid Dynamics

Numerical Simulation

Production and Development of Renewable Energy

Combustion



Professional Experiences:

04/2003~present	Professor Department of Mechanical Engineering	Kumamoto University, Japan
06/1993~3/2003	Associate Professor Department of Mechanical Engineering	Kagoshima University, Japan
09/1990~09/1991	Visiting Scholar Department of Mechanical Engineering	University of Michigan, USA
04/1985~08/1990	Assistant Professor Department of Mechanical Engineering	Kyushu University, Japan

Personal Introduction:

Shuichi TORII received the B.D. degree from Kagoshima University in 1983 and M.D. and Ph.D. degree from Kyushu University in 1985 and 1989, respectively, all in Mechanical Engineering. He then worked as the visiting scholar at University of Michigan, where he studied the solidification and oxidization in reactor using the experimental method and numerical simulation. In 1993, he became the associate professor at Kagoshima University, where he studied the thermal fluid flow transport phenomena for rotating machinery and combustion and the development of turbulence model. Since 2003, he currently is a Professor of Department of Mechanical Engineering at Kumamoto University. He focuses on production and development of clean Energy and renewable Energy, thermal fluid flow transport phenomena using nanofluids, advanced cooling device development with the use of nanofluids and development of new clean fuel with the aid of shock-wave.

1. Society and Educational Achievement

Editor, Japanese Society of Mechanical Engineering

Editor, Japanese Society of Heat Transfer

Editor, International Journal of Energy Research

Editor, International Journal of Transport Phenomena

Editor, Journal of Mechanics in Medicine and Biology

Editor, International Journal of Earth Sciences and Engineering

Editor, Journal of Flow Visualization and Image Processing

2. Academic Societies

- Japanese Society of Mechanical Engineering
- Japanese Society of Heat Transfer
- Japanese Society of Experimental Mechanics
- Japanese Society of Visualization Information
- Society of Heating, Air-Conditioning and Sanitary Engineering of Japan
- Chemical Engineering of Japan
- Japan Institute of Energy
- American Institute of Aeronautics Astronautics
- American Society of Mechanical Engineering
- Canadian Society of CFD

3. Achievements in Research

- Research related to numerical and experimental convection heat transfer
- Research related to laminar and turbulent flows in channel and closed cavity
- Research related to computational fluid dynamics
- Research related to development of new turbulence models in velocity and temperature fields
- Research related to thermal propagation phenomena in nano- and micro-film
- Research related to particle movement in fluid flow, i.e., multiphase flow
- Research related to experimental and numerical diffusion flame
- Research related to Renewable Energy and Energy Production using Biomass

Awards:

1. Excellent Presentation Award
International Symposium on Exo Topia Science 2007, November 23-25, 2007
2. Excellent Presentation Award
R'09 Twin World Congress, November 14-16, 2009.
3. Presidential Award for Research in Kumamoto University, May 10, 2009
4. Presidential Award for Education in Kumamoto University, May 10, 2012
5. Presidential Award for Research in Kumamoto University, May 10, 2012

**Research Project:
Government Funds. (only recent three year for reference)**

Project Title	Project Reader	Period	Budget (JPN)
Verification Project on Green Community by Utilizing Untapped Resources such as Waste Heat	Project Reader	2013/12~ 2016/3	260000000
NEDO Project, Utilization and Development of Human-waste Dewatered Sludge and Sewage Dewatered Sludge	Project Reader	2013/9~ 2014/3	14100000
Advanced super boiling material using nano-diamond and shock-wave method	Project Reader	2012/4~ 2014/3	3100000
The Development of New Combustion Technology for Bio-oil	Project Reader	2011/8~ 2012/2	5250000
The Development of New Combustor and Combustion Method for Compost	Project Reader	2011/9~ 2012/3	8400000
The Development of New Combustor	Project Reader	2009/4~ 2010/3	1900000
The Development of Micro-Pump	Project Reader	2008/4~ 2011/3	18600000

Industrial Funds. (only recent three year for reference)

Project Title	Project Reader	Period	Budget (JPN)
Development of advanced biomass fuel for boiler	Project Reader	2013/4~ 2015/3	12800000
Development of advanced electric boiler	Project Reader	2012/9~ 2015/3	12000000
Development of advanced electric boiler	Project Reader	2011/9~ 2012/8	6000000
Development of recycle material	Project Reader	2010/4~ 2011/3	1000000
Development of new emulsion fuel	Project Reader	2010/4~ 2011/3	1500000
Development of new fuel using waste oil	Project Reader	2010/4~ 2011/3	1600000

Publication List:

(A) Journal Paper :

1. 鳥居修一、清水昭比古、長谷川修、草間伸行
” 高熱流束加熱による環状流路内の熱伝達” ,
日本機械学会論文集、53 巻、第 488 号 B 編、PP. 1277-1283、1987.
2. Shuichi TORII, Akihiko SHIMIZU, Shu HASEGAWA and Nobuyuki KUSAMA
” Convective Heat Transfer in Annular Passages with High Heat Flux” ,
Heat Transfer Japanese Research, Vol. 17, No. 4, pp. 46-57, 1988.
3. 鳥居修一、清水昭比古、長谷川修、草間伸行
” 強く加熱される同心二重円管内ガス流の伝熱流動 (改良型 $k-\epsilon$ モデルによる数値解析)” ,
日本機械学会論文集、55 巻、第 518 号 B 編、pp. 3136-3143、1989.
4. 鳥居修一、清水昭比古、長谷川修、日笠正晃
” 改良型 $k-\epsilon$ モデルを用いた加熱層流化現象の解析” ,
日本機械学会論文集、55 巻、第 518 号 B 編、pp. 3144-3150、1989.
5. Shuichi TORII, Akihiko SHIMIZU, Shu HASEGAWA and Masaaki HIGASA
”Laminarization of Strongly Heated Gas Flows in a Circular Tube (Numerical Analysis by Means of a Modified $k-\epsilon$ Model)” ,
JSME International Journal, Series II, Vol. 33, No. 3, pp. 538-547, 1990.
6. 布施肇、鳥居修一、近藤義広
” 円柱径の違いによる円柱背面の伝熱機構” ,
日本機械学会論文集、57 巻、第 536 号 B 編、pp. 1416-1421、1991.
7. 鳥居修一、清水昭比古、長谷川修
” 二重円管内ガス流の加熱層流化現象” ,
日本機械学会論文集、57 巻、第 537 号 B 編、pp. 1858-1866、1991.
8. Shuichi TORII, Akihiko SHIMIZU, Shu HASEGAWA and Nobuyuki KUSAMA
”Laminarization of Strongly Heated Annular Gas Flows” ,
JSME International Journal, Series II, Vol. 34, No. 2, pp. 157-168, 1991.
9. 鳥居修一、清水昭比古、長谷川修、日笠正晃
” レイノルズ応力モデルを用いた円管内ガス流の加熱層流化現象の解析” ,
日本機械学会論文集、58 巻、第 551 号 B 編、pp. 2274-2280、1992.
10. Shuichi TORII and Wen-Jei YANG
”Melt-Particle Mixing in Gas Stirred Ladles with Throughflow” ,
Experiments in Fluids, Vol. 13, pp. 37-42, 1992.
11. Shuichi TORII and Wen-Jei YANG
”Penetration of Particle-Carrying Gas Jets in a Liquid Ladle by Real-Time Image Processing” ,
Journal of Flow Visualization and Image Processing, Vol. 1, pp. 43-48, 1993.
12. Shuichi TORII, Akihiko SHIMIZU, Shu HASEGAWA and Masaaki HIGASA
”Numerical Analysis of Laminarizing Circular Tube Flows by Means of a Reynolds Stress Turbulence Model” ,

Heat Transfer Japanese Research, Vol. 22, No. 2, pp. 154-170, 1993.

13. Shuich TORII and Wen-Jei YANG

"Effects of the Length Scale of Free-Stream Turbulence and Cylinder Size on Local Heat Transfer in Laminar Separated Flows",

Experimental Heat Transfer, Vol. 6, pp. 175-187, 1993.

14. Shuichi TORII and Wen-Jei YANG

"Numerical Study on Turbulent Flow and Heat Transfer in Circular Couette Flows",

Numerical Heat Transfer, Part A, Vol. 26, pp. 321-336, 1994.

15. Shuichi TORII and Wen-Jei YANG

"A Numerical Study on Turbulent Couette Flow and Heat Transfer in Concentric Annuli",

Journal of Numerical Methods for Heat and Fluid Flow, Vol. 4, pp. 367-377, 1994.

16. Shuichi TORII and Wen-Jei YANG

"Numerical Prediction on Fully Developed Turbulent Swirling Flows in an Axially Rotating Pipe by Means of a Modified $k-\varepsilon$ Turbulence Model",

Journal of Numerical Methods for Heat and Fluid Flow, Vol. 5, No. 2, pp. 175-183, 1995.

17. 矢野利明、鳥居修一、木下紀正、平田賢志

"人工衛星データを用いた地表面温度の推定",

日本機械学会論文集、61巻、第585号B編、pp. 1907-1913、1995.

18. Shuichi TORII and Wen-Jei YANG

"A Numerical Analysis on Flow and Heat Transfer in the Entrance Region of an Axially Rotating Pipe",

International Journal of Rotating Machinery, Vol. 2, No. 2, pp. 123-129, 1995.

19. Shuichi TORII and Wen-Jei YANG

"A Numerical Study on Turbulent Couette Flow and Heat Transfer in Concentric Annuli by Means of Reynolds Stress Turbulence Model",

International Journal of Rotating Machinery, Vol. 2, No. 2, pp. 131-138, 1995.

20. Shuichi TORII and Wen-Jei YANG

"Flow Characteristics of Gas-Liquid-Particle Mixing in a Gas-Stirred Ladle System with Throughflow",

Experiments in Fluids, Vol. 19, No. 5, pp. 328-335, 1995.

21. Shuichi TORII and Wen-Jei YANG

"New Near-Wall Two-Equation Model for Turbulent Heat Transport",

Numerical Heat Transfer, Part A, Vol. 29, pp. 417-440, 1996.

22. Shuichi TORII and Wen-Jei YANG

"Heat Transfer Analysis of Turbulent Parallel Couette Flows Using Anisotropic $k-\varepsilon$ Model",

Numerical Heat Transfer, Part A, Vol. 31, pp. 223-234, 1997.

23. Shuichi TORII and Wen-Jei YANG

- "A Numerical Study on Heat Transport in Turbulent Couette Flows in Concentric Annuli",
Journal of Numerical Methods for Heat and Fluid Flow, Vol. 7, No. 1, pp. 81-94, 1997.
24. Shuichi TORII and Wen-Jei YANG
"Laminarization of Turbulent Gas Flow inside a Strongly Heated Tube",
International Journal of Heat and Mass Transfer, Vol. 40, No. 13, pp. 3105-3117, 1997.
25. Shuichi TORII and Wen-Jei YANG
"Numerical Heat Transfer in the Thermal Entrance Region of Turbulent Parallel Couette Flows
in Concentric Annuli",
Computer Modeling and Simulation in Engineering, Vol. 2, pp. 344-357, 1997.
26. Toshiaki YANO, Shuichi TORII and Naoko IINO
"Candle Flame under Microgravity"
ALBUM OF VISUALIZATION, No. 14, PP. 5-6, 1997, THE VISUALIZATION SOCIETY OF JAPAN
27. Shuichi TORII and Wen-Jei YANG
"Turbulent Flow and Heat Transfer in Circular Couette Flows in Concentric Annulus",
International Journal of Rotating Machinery, Vol. 4, pp. 35-48, 1998.
28. Shuichi TORII and Wen-Jei YANG
"Thermal Transport Phenomena of Turbulent Gas Flow through a Tube at High Temperature
Difference and Uniform Wall Temperature",
ASME, Journal of Heat Transfer, Vol. 120, No. 3, pp. 784-787, 1998.
29. Shuichi TORII and Wen-Jei YANG
"Thermal-Fluid Transport Phenomena of a Strongly-Heated Gas Flow in Parallel Tube Rotation",
International Journal of Rotating Machinery, Vol. 4, pp. 271-282, 1998.
30. Shuichi TORII and Toshiaki YANO
"Experimental Study on Jet Diffusion Flame by Means of Real-Time Image Processing",
Journal of Flow Visualization and Image Processing, Vol. 5, pp.81-93, 1998.
31. Shuichi TORII and Wen-Jei YANG
"Flow Visualization and Transport Phenomena over a Slot-Perforated Flat Surface between Two
Parallel Plates",
Journal of Flow Visualization and Image Processing, Vol. 5, pp. 63-80, 1998.
32. Shuichi TORII and Wen-Jei YANG
"Thermal Transport in Turbulent Couette Flows in Concentric Annuli for Various Prandtl
Numbers",
Numerical Heat Transfer, Part A, Vol. 34, pp.537-552, 1998.
33. Shuichi TORII and Wen-Jei YANG
"Secondary Flow and Heat Transfer in an Axially Rotating Flow Passage with Sudden Expansion",
Journal of Flow Visualization and Image Processing, Vol. 5, pp. 115-124, 1998.
34. Naoko IINO, Fumihiko TUCHINO, Shuichi TORII, Toshiaki YANO

- "Timewise Variation of Turbulent Jet Diffusion Flame Shape by Means of Image Processing",
Journal of Flow Visualization and Image Processing, Vol. 5, pp. 275-281, 1998.
35. Shuichi TORII, Wen-Jei YANG
"Secondary Flow Phenomena in an Axially Rotating Flow Passage with Sudden Expansion or Contraction",
International Journal of Rotating Machinery, Vol. 5, No.2, pp.117-122, 1999.
36. Shuichi TORII
"Numerical Study on Thermal Transport Phenomena in Turbulent Parallel Couette Flows in a Concentric Annulus",
International Journal of Transport Phenomena, Vol. 1, pp. 97-105, 1999.
37. Shuichi TORII, Wen-Jei YANG, Shinzaburo UMEDA
"Flow over a Slot-Perforated Flat Surface between Two Parallel Plates",
International Journal of Numerical Methods for Heat & Fluid Flow, Vol. 9, No.2 pp. 136-150, 1999.
38. Shuichi TORII and Wen-Jei YANG
"Swirling Effects on Laminarization of Gas Flow in a Strongly Heated Tube",
ASME, Journal of Heat Transfer, Vol. 121, pp. 307-313, 1999.
39. Shuichi TORII and Wen-Jei YANG
"Numerical Thermal and Fluid Flow Transport Phenomena of Rayleigh-Benard Convection in a Thin Liquid Layer",
Journal of Flow Visualization and Image Processing, Vol. 6, pp.33-40, 1999.
40. Shuichi TORII
"Thermal Transport Phenomena of Turbulent Jet Diffusion Flames by Means of Anisotropic $k-\epsilon-t_2-\epsilon_t$ Model",
International Journal of Energy Research, Vol. 23, pp. 989-998, 1999.
41. Shuichi TORII and Wen-Jei YANG
"Heat Transfer and Fluid Flow in a Strongly-Heated Tube in Parallel Rotation",
International Journal of Transport Phenomena, Vol. 1, pp. 221-233, 1999.
42. Shuichi TORII and Wen-Jei YANG
"Numerical Flow Visualization and Thermal Transport Phenomena of Benard Convection in a Thin Liquid Layer Induced by Evaporation",
Journal of Flow Visualization and Image Processing, Vol. 6, pp. 95-104, 1999.
43. Sze Man Simon CHAN, Toshiaki YANO and Shuichi TORII
"Experimental Study on Lift-Off Jet Diffusion Flame Morphology in the Interim of Doublet Flows Utilization",
Journal of Flow Visualization and Image Processing, Vol. 6, pp. 283-294, 1999.
44. Shuichi TORII and Wen-Jei YANG

- "Thermal-Fluid Transport Phenomena in Strongly Heated Channel Flows",
International Journal of Numerical Method for Heat & Fluid Flow., Vol. 10, No. 8, pp. 802-823,
2000.
45. 鳥居修一
" 極薄フィルム内に発生する熱衝撃波の伝播現象" ,
バウンダリー、16 巻、第 9 号、pp. 12-13、2000.
46. Shuichi TORII
"Numerical Simulation of Turbulent Jet Diffusion Flames by Means of Two-Equation Heat Transfer
Model",
Energy Conversion and Management, Vol. 42, pp. 1953-1962, 2001.
47. Sze Man Simon Chan, Shuichi TORII and Toshiaki YANO
"Enhancement of Turbulent Jet Diffusion Flame Blowout Limits by Annular Counter Flow "
International Journal of Energy Research, Vol. 25, No. 12, pp. 1091-1105, 2001.
48. Shuichi TORII
"Unsteady Thermal Fluid Transport Phenomena in a Square Cavity under Reduced Gravity",
International Journal of Computational Engineering Science, Vol. 2, No.1, pp. 59-73, 2001.
49. Byong-koog JUNG, Shuichi TORII and Toshiaki YANO
"Reattachment Phenomenon of High-Speed Hydrogen Jet Diffusion Flame"
Journal of Flow Visualization and Image Processing, Vol. 8, pp. 111-119, 2001.
50. 鄭 秉國、矢野利明、鳥居修一、望月博昭
「水素高速噴流拡散火炎の再着火現象」
日本機械学会論文集、67 巻、661 号、pp. 2347-2352, 2001.
51. Sze Man Simon CHAN, Shuichi TORII, and Toshiaki YANO
"Morphology of Turbulent Jet Diffusion Flames with Annular Counterflow",
Thermal Science and Engineering, Vol. 9, pp. 9-16, 2001.
52. Sze Man Simon CHAN, Shuichi TORII and Toshiaki YANO
"Active Control of Lift-Off Tendency and Blowout Limit Extension of Turbulent Jet Diffusion
Flames by Peripheral Shear Flow",
Journal of Flow Visualization and Image Processing, Vol. 8, pp. 275-285, 2001.
53. 陳 仕敏サイモン、鳥居修一、矢野利明
「ダブレット噴流を利用した乱流拡散火炎の吹き消え限界の向上」
日本機械学会論文集、67 巻、663 号、pp. 209-215, 2001.
54. Shuichi TORII
"Propagation Phenomena during Symmetrical Collision of Thermal Waves in Thin Film",
International Journal of Transport Phenomena, Vol. 3, pp-357-364, 2001.
55. 鳥居修一

- “熱衝撃波の伝わり方”,
 バウンダリー、17 巻、第 8 号、pp. 3-5、2001.
56. Shuichi TORII and Wen-Jei YANG
 “Numerical Analysis on Flow and Heat Transfer in an Axially Rotating Flow Passage with a Concentric Orifice”
 International Journal of Rotating Machinery, Vol. 8, No. 4, pp. 305-308, 2002.
57. Shuichi TORII and Wen-Jei YANG
 “Thermal Wave Propagation Phenomena in Thin Solid Films with Temperature-Dependent Thermal Conductivity”
 International Journal of Transport Phenomena, Vol. 4, pp. 133-140, 2002.
58. Sze Man Simon CHAN, Shuichi TORII and Toshiaki YANO
 “Effect of Positive Height Difference in Annular Counter-Flow Configuration on Extension of Turbulent Jet Diffusion Flame Blowout Limits”
 International Journal of Transport Phenomena, Vol. 4, No. 4, pp. 235-244, 2002.
59. Shuichi TORII and Wen-Jei YANG
 “Thermal Transport Phenomena over a Slot-Perforated Flat Surface in Pulsating Free Stream”
 International Journal of Thermal Science, Vol. 41, pp. 241-252, 2002.
60. Shuichi TORII, Byong-koog JUNG, and Toshiaki YANO
 “Reignition Phenomenon of High-Speed Hydrogen Jet Diffusion Flame”
 International Journal of Energy Research, Vol. 26, pp. 1045-1053, 2002.
61. Sze Man Simon CHAN, Shuichi TORII, and Toshiaki YANO
 “Effect of Annular Counterflow on Change in Turbulent Diffusion Flame”,
 Journal of Flow Visualization and Image Processing, Vol. 9, pp. 99-113, 2002.
62. Shuichi TORII and Wen-Jei YANG
 “Thermal Fluid Transport Phenomena over Slot-Perforated Flat Surface in Channels”
 Journal of Flow Visualization and Image Processing, Vol. 9, pp. 281-285, 2002.
63. Shuichi TORII and Wen-Jei YANG
 “Evaporation-Induced Benard Convection in a Thin Liquid Layer”
 International Journal of Energy Research, Vol. 27, pp. 255-264, 2003.
64. Shuichi TORII
 “Thermal Diffusion Phenomena in Vertical Free Jet Using Two-Dimensional Channel Counterflow”,
 International Journal of Transport Phenomena, Vol. 5, pp. 175-183, 2003.
65. Shuichi TORII and Wen-Jei YANG
 “Jet-Ball Interaction Phenomenon in Check-Ball Valve”,
 International Journal of Transport Phenomena, Vol. 5, pp. 169-174, 2003.
66. Shuichi TORII
 “Effect of Aspect Ratio of Unsteady Thermal-Fluid Transport Phenomena in Cavities under

- Reduced Gravity”
International Journal of COMPUTATIONAL ENGINEERING SCIENCE, Vol. 4, No. 1, pp. 85-97, 2003.
67. Shuichi Torii and Wen-Jei Yang
“Thermal-Fluid Transport Phenomena of Dual Jet Impingement with Inclined Confinement Channel
”
Cientifica, Vol. 7, pp.178-188, 2003.
68. Shuichi TORII, Toshiaki YANO, and H. MAEDA
“Counterflow Diffusion Flame under Reduced Gravity”
Journal of Visualization, Vol. 6, No. 1, p. 3, 2003.
69. Shuichi TOROII and Wen-Jei YANG
“Swirling Effect on Thermal-Fluid Transport Phenomena in a Strongly Heated Concentric
Annulus”
ASME, Journal of Heat Transfer, Vol. 125, pp. 604-611, 2003.
70. Shuichi TORII
“Thermal Fluid Transport Phenomena in Concentric Annulus with Movement and Rotation of Inner
Core”,
Computer Modeling in Engineering & Sciences, Vol. 5, No. 3, pp. 2004, pp. 257-267, 2004.
71. Naoko IINO, Toshikatsu MASUMUZU, Kisei KINOSHITA, Itsushi UNO, Toshiaki YANO, and Shuichi TORII
Timewise behavior of Asian dust aerosols observed in 2001 using meteorological satellite
data,
International Journal of Environmental Technology and Management,
Vol. 4, No. 3, pp.208-219, 2004.
72. Naoko IINO, Kisei KINOSHITA, Megumi KOYAMADA, Toshiaki YANO, and Shuichi TORII
“Satellite analysis and mesoscale behaviour of volcanic plumes and gas from Miyakejima, Japan”
International Journal of Environmental Technology and Management, Vol. 4, No. 3, pp. 253-265,
2004.
73. Shuichi TORII and Wen-Jei Yang
Effect of Heat Flux Ratio on Thermal-Fluid Flow Transport Phenomena in Channel”
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74. Shuichi TORII, Byong-Koog JUNG, and Toshiaki YANO
“Combustion Phenomenon of Hydrogen Micro-Jet Diffusion Flames”
Thermal Science and Engineering, Vol. 11, No. 5, pp.11-17, 2003.
75. Shuichi TORII and Wen-Jei YANG
“Temperature-Gradient Control of Flow Separation Phenomenon on a Curved Surface”
Journal of Flow Visualization and Image Processing, Vol. 11, pp. 43-51, 2004.
76. Shuichi TORII and Wen-Jei YANG
“Thermocapillary Convection around a Horizontal Heat Source in a Liquid Cavity”
Journal of Flow Visualization and Image Processing, Vol. 11, pp. 109-120, 2004.

77. Shuichi TORII, Satoyuki TANAKA, Toshiaki YANO and Yoshimi WATANABE
 “Experimental and Theoretical Study on Suspended Particle Motion in Axially Rotating Drum”
 International Journal of Transport Phenomena, Vol. 6, pp. 189-195, 2004.
78. Shuichi TORII , Satoyuki TANAKA, Toshiaki YANO, and Yoshimi WATANABE
 “Analysis of Dispersed Particle Motion for forming Gradient Structure in the Rotating Drum”,
 International Journal of Transport Phenomena, Vol. 7, pp. 23-30, 2005.
79. Shuichi TORII and Wen-Jei YANG
 “Heat Transfer Mechanisms in Thin Film with Laser Heat Source”,
 International Journal of Heat and Mass Transfer, Vol. 48, pp. 537-544, 2005.
80. Shuichi TORII and Wen-Jei YANG
 “Thermal-Fluid Transport Phenomena in an Axially Rotating Flow Passage with Twin Concentric Orifices of Different Radii,”
 International Journal of Energy Research, Vol. 30, pp. 751-761, 2006.
81. Shuichi TORII and Wen-Jei YANG
 “Effects of Inner Core Movement and Rotation on Couette Flows in Concentric Annulus,”
 International Journal of Transport Phenomena, Vol. 7, pp. 189-198, 2005.
82. Hyung Gon KIM, Toshiaki YANO, Kyu Keun SONG, Shuichi TORII
 “Atomization Characteristics in Effervescent Atomizer with Two -Aerator Tubes,”
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83. Shuichi TORII and Wen-Jei YANG
 “Thermal-Fluid Flow Transport Phenomena in an Axially Rotating Flow Passage with Twin Concentric Orifices”
 Journal of Flow Visualization and Image Processing, Vol. 12, pp. 331-342, 2005.
84. Shuichi TORII and Wen-Jei YANG
 “Numerical Analysis on Thermal-Fluid Flow between Stationary and Rotating Parallel Disks”
 Journal of Flow Visualization and Image Processing, Vol. 12, pp. 95-104, 2005.
85. Shuichi TORII and Wen-Jei YANG
 Thermal-Fluid Flow Transport Phenomenon over Slot-Perforated Flat Plates Placed in Narrow Channel,
 Journal of Thermophysics and Heat Transfer, Vol. 21, No.2, pp. 346-351, 2007.
86. Shuichi TORII
 “Thermal Diffusion Phenomena in Free Jet from Concentric Annulus”
 International Journal of Green Energy, Vol. 2, pp. 65-78, 2005.
87. Shuichi TORII and Wen-Jei YANG
 "THERMAL-WAVE PROPAGATION PHENOMENON IN THIN FILMS HEATED WITH LASER HEAT SOURCE"
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 “Thermal Fluid Flow Transport Phenomena in Unsteady Rotating Drum during Spin-Down Process”

- International Journal of Rotating Machinery, Vol. 3, pp. 197-201, 2005.
89. Shuichi TORII, Wen-Jei YANG and Zhi-Ming YAN
“Propagation of Thermal Waves in a Thin Film Subjected to Heating and Cooling on Either Side”,
Far East Journal of Applied Mathematics, Vol. 25. No. 3, pp. 353-369, 2006.
90. Shuichi TORII and Wen-Jei YANG
“Propagation Phenomena during Asymmetrical Collision of Thermal Waves in a Thin Film”,
Far East Journal of Applied Mathematics, Vol. 21, No. 2, pp. 201-217, 2005.
91. 鳥居修一、田中智行、矢野利明、渡邊義見
重力場と遠心力場での円盤状粒子の挙動
傾斜機能材料論文集 vol.19, pp. 13-18, 2005.
92. Shuichi TORII and Wen-Jei YANG
“Thermal Wave Propagation Phenomenon in Thin Film by Means of Molecular Dynamics Method”
IPSI Transactions on Advanced Research, Vol. 2, No. 1, pp. 39-44, 2006.
94. Ko-Ho Su, Wen-Jei Yang, Jr-Miao and Shuichi TORII
“Experimental and Theoretical Study on Bubble Behavior in Gas-Stirred Ladles with Throughflow Having
Tap-Stream Addition of Particulates”
Far East Journal of Applied Mathematics, Vol. 23, pp. 323-348, 2006.
95. Shuichi TORII, Yoshimi WATANABE
“Experimental and Theoretical Study on Circular Disk Particles Suspended in Centrifugal and
Non-Centrifugal Force Environment”
International Journal for Multiscale Computational Engineering, under review process.
96. Shuichi TORII
“Effect of Collar Length on Extension of Subsonic Hydrogen Jet Diffusion Flame Blowout Limits”
International Journal of Green Energy, Vol. 4, Issue 4, pp. 367-375, 2007.
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Patents:

1. 特開 2006-11638 (P2006-11638A)

【発明の名称】 コンピューター等の電子機器からの放熱機器及びそのシステム

伊東繁、鳥居修一、峠睦、外本和幸

2. 特願 2005-175017 「機能性基盤の製造方法および機能性基盤、並びに半導体装置」 伊東繁、鳥居修一、峠睦、外本和幸

3. 特願 2005-213939 「壁取り付け式の空調室外機および空調システム」

伊東繁、鳥居修一、峠睦、外本和幸

4. 特願 2005-199908 「有機質系廃液の燃焼ノズル装置、その燃焼処理方法並びにエネルギー発生システム」

国際特許： PCT/JP2006/313678

鳥居修一

5. 特願 2007-144752 「有機廃棄物燃料およびその製造方法」

鳥居修一

International Committee Member, Program Chair, Session Chair [Committee member]

1. The 5th Internatinal Symposium on Transport Phenomena and Dynamics of Rotating Machinery, May 8-11, 1994.

2. The 1st Pacific Symposium on Flow Visualization and Image Processing
February 23-26, 1997.

3. RUN 98, December 1-3, 1998.

4. The 2nd Pacific Symposium on Flow Visualization and Image Processing

- May 16-19, 1999.
5. The 3rd Pacific Symposium on Flow Visualization and Image Processing
March 18-21, 2001.
 6. RUN 2 0 0 1, December 17-19, 2001.
 7. The 9th International Symposium on Transport Phenomena and Dynamics of Rotating Machinery
(ISROMAC-9), February 17-19, 2002.
 8. The 13th International Symposium on Transport Phenomena
June 14-18, 2002.
 9. The 1st International Symposium on Micro- and Nano-Technology
March 15-19, 2004.
 10. The 15th International Symposium on Transport Phenomena
May 14-18, 2004.
 11. The International Green Energy Conference
June 12-15, 2005.
 12. The 17th International Symposium on Transport Phenomena
September 4-8, 2006
 13. The 18th International Symposium on Transport Phenomena
August 27-30, 2007.
 14. The 6nd Pacific Symposium on Flow Visualization and Image Processing
May 18-21, 2007.
 15. International Symposium on Advanced Fluid/Solid Science and Technology in Experimental
Mechanics
September 23-25, 2007.
 16. First ASME Micro/Nanoscale Heat Transfer International Conference,
January 6-9, 2008.
 17. The 19th International Symposium on Transport Phenomena
August 17-21, 2008.
 18. The 4th International Green Energy Conference
October 20-22, 2008.
 19. The Yellow Sea Rim International Exchange Meeting on Building Environment and Energy
January 29-30, 2009.
 20. The 20th International Symposium on Transport Phenomena
July 7-10, 2009.
 21. Third Yellow Sea Rim Workshop on Explosion, Combustion and other Energetic Phenomena
September 9-10, 2009.
 22. THE INTERNATIONAL WORKSHOP ON THERMOFLUIDS(PART OF MOU ACTIVITY BETWEEN USM AND KUMAMOTO
UNIVERSITY, JAPAN)
January 5, 2010.

23. Forth Yellow Sea Rim Workshop on Explosion, Combustion and other Energetic Phenomena
August 30, 2010.
24. First International Workshop on Environment, Energy and Innovative Technology in Minamata
October 29-30, 2010.
25. International Engineering Symposium 2011
March 3-5, 2011.
26. Fifth Yellow Sea Rim Workshop on Explosion, Combustion and other Energetic Phenomena
March 10-12, 2011.
27. Asia Symposium of Visualization 2011 ASV11
June 5-9, 2011.
28. The 7th International Conference on Fluid and Thermal Energy Conversion 2011
September 24-27, 2011.
29. Sixth Yellow Sea Rim Workshop on Explosion, Combustion and other Energetic Phenomena
September 8-10, 2011.
30. Minamata International Symposium ON Environment And Energy Technology 2011
December 6-8, 2011.
31. International conference on applied technology, science and arts (APTECS)
December 6-7, 2011.
32. International Conference on "Recent Advances and Challenges in Energy - 2012 (RACE - 2012)
January 4-6, 2012.
33. International Engineering Symposium 2012
March 5-7, 2012.
34. Sixth Yellow Sea Rim Workshop on Explosion, Combustion and other Energetic Phenomena
August 2-3, 2012.
35. International Engineering Symposium 2013
March 3-5-7, 2013.
36. Second World Conference on Applied Science & Engineering Technology
March 9-10, 2013.
37. 9th Pacific Symposium on Flow Visualization and Image Processing (PSFVIP-9)
August 25-28, 2013.
38. M I S S I O N 2013
December 4-6, 2013.
39. International Conference on Environmental and Sustainable Technology
January 4-6, 2014.
40. The Yellow Sea Rim International Exchange Meeting on Building Environment and Energy
(YSRIM2014)
February 16-18, 2014.
41. Yellow Sea Rim Workshop on Explosion, Combustion and other Energetic Phenomena

March 20, 2014.

42. International conference on Recent advances in Engineering Science (ICRAES)
September 4-5, 2014.
43. International Conference on Computational Methods in Engineering and Health Sciences (ICCMEH-2014)
December 17-19, 2014.

[Session Chairman]

1. The 5th International Symposium on Transport Phenomena and Dynamics of Rotating Machinery
May 8-1, 1994.
2. The Joint ASME-JSME Fluids Engineering Annual Conference
August 13-18, 1995.
3. Canada Society for Mechanical Engineering Forum 1998
May 19-22, 1998.
4. The 11th International Symposium on Transport Phenomena
November 29- December 3, 1998.
5. The 2nd Pacific Symposium on Flow Visualization and Image Processing
May 16-19, 1999
6. 9th Millennium International Symposium on Flow Visualization
August 22-25, 2000.
7. The 3rd Pacific Symposium on Flow Visualization and Image Processing
May 18-21, 2001.
8. The 9th International Symposium on Transport Phenomena and Dynamics of Rotating Machinery
(ISROMAC-9)
February 17-19, 2002.
9. NATO-ASI
July 1-5, 2002.
10. The 13th International Symposium on Transport Phenomena
July 14-18, 2002.
11. 2002 Fluids Engineering Divisions Summer Meeting
July 14-18, 2002
12. The 4th Pacific Symposium on Flow Visualization and Image Processing
June 3-5, 2003.
13. The 14th International Symposium on Transport Phenomena
July 6-9, 2003.
14. The 10th International Symposium on Rotating Machinery
March 10-14, 2004.

15. 1st International Symposium on Micro and Nano Technology
March 14-17, 2004.
16. The International Green Energy Conference
June 12-15, 2005.
17. The 16th International Symposium on Transport Phenomena
August 28- September 2, 2005.
18. IPS-USA-2006 NEW YORK,
January 5-8, 2006.
19. The 17th International Symposium on Transport Phenomena
September 4-8, 2006.
20. 2006 International Symposium on Nano Science and Technology
November 9-12, 2006.
21. 15th INTERNATIONAL CONFERENCE ON MECHANICS IN MEDICINE AND BIOLOGY
December 6-8, 2006.
22. The 6th Pacific Symposium on Flow Visualization and Image Processing
May 16-20, 2007.
23. The 19th International Symposium on Transport Phenomena
August 27- September 2, 2007.
24. 2007 International Symposium on Nano Science and Technology
November 8-11, 2007.
25. ASME Micro/Nanoscale Heat Transfer International Conference
January 6-10, 2008.
26. 4th International Green Energy Conference
October 19-23, 2008.
27. 2008 International Symposium on Nano Science and Technology
November 7-9, 2008.
28. First International Conference on Applied Energy
January 5-7, 2009.
29. 2nd ASME Micro/Nanoscale Heat & Mass Transfer Conference,
December 18-21, 2009.
30. ISFV14 - 14th International Symposium on Flow Visualization
June 21-24, 2010, EXCO Daegu, Korea
31. 5th International Green Energy Conference, IGEC-V,
June 1-3, 2010,
32. Multiphysics 2010
December 8-10, 2010.
33. 2011 ASME/JSME Thermal Engineering Joint Conference
March 13-17, 2011.

34. International conference on applied technology, science and arts (APTECS)
December 6-7, 2011.
35. International Conference on Recent Advances and Challenges in Energy - 2012 (RACE - 2012)
January 4-6, 2012.
36. Sixth Yellow Sea Rim Workshop on Explosion, Combustion and other Energetic Phenomena
August 2-3, 2012.
37. 2012 International Symposium on Nano Science and Technology
November 8-9, 2012.
38. Second World Conference on Applied Science & Engineering Technology
March 8-10, 2013.
39. International Conference on Environmental and Sustainable Technology
December 12-14, 2013.
40. 9th Pacific Symposium on Flow Visualization and Image Processing (PSFVIP-9)
August 25-28, 2013.
41. The 4th International Symposium on Micro and Nano Technology (ISMNT-4)
October 8-12, 2013.

[Invited Lecture]

The 11th International Symposium on Transport Phenomena

Title : Effects of Coaxial Rotation on Laminarization of Gas Flow in a Strongly Heated Tube

The 12th International Symposium on Transport Phenomena

Title : Thermal Propagation Phenomena during Symmetrical Collision of Thermal Shock Waves in Thin Films with Temperature-Dependent Thermal Conductivity

Huafan University

Title :

- 1) Propagation Phenomena during Asymmetrical Collision of Thermal Waves in a Very Thin Film
- 2) Transport in Turbulent Jet Diffusion Flames with Annular Counterflow
- 3) Swirling Effect on Thermal-Fluid Transport in a Strongly Heated Concentric Annulus

NATO (North Atlantic Treaty Organization)-ASI (Advanced Study Institute) on Low-Temperature and Cryogenic Refrigeration Fundamentals and Applications

Title : OVERCOOLING PHENOMENON BY SYMMETRICAL COLLISION OF THERMAL WAVES IN THIN FILM

The 13th International Symposium on Transport Phenomena

Title : Propagation Phenomena of Thermal Waves in Thin Film with Laser Heat Source

NATO Advanced Study Institute on Microscale Heat Transfer Fundamentals and Applications in Biological and Microelectronic Systems, Izmir-Turkiye, July 18-30, 2004.

Title : Some Biomedical Applications of Nanotechnology in Drug Delivery

NATO Advanced Study Institute on Microscale Heat Transfer Fundamentals and Applications in Biological and Microelectronic Systems, Izmir-Turkiye, July 18-30, 2004.

Title : Thermal Transport Phenomenon in Micro Film Heated by Laser Heat Source

The First Yellow Sea Rim Workshop on Explosion, Combustion and other Energetic Phenomena

Title : COMBUSTION CHARACTERISTICS OF SUBSONIC HYDROGEN JET DIFFUSION FLAME

Second Yellow Sea Rim Workshop on Explosion, Combustion and other Energetic Phenomena, September 9-10, Kumamoto, Japan.

Title : PROPAGATION PHENOMENON OF THERMAL WAVE IN VERY THIN FILM

2008 International Workshop of Promoting the R&D Capability of Critical Technology and their Manufacturing Application

Title : COMBUSTION CHARACTERISTICS OF HYDROGEN MICRO JET DIFFUSION FLAMES

2008 INTERNATIONAL SYMPOSIUM ON NANO SCIENCE AND TECHNOLOGY

Title : PROPAGATION PHENOMENON OF THERMAL WAVE IN VERY THIN FILM

Fourth International Conference of The Yellow Sea Rim International Exchange Meeting on Building Environment and Energy (YSRIM 2009)

Title : Thermal Fluid-Flow Control in Opened and Closed Indoor with Injection and Suction Ducts by Using Vertical Partition Plate

CERC-SCMRC 3rd International Workshop

Title : Combustion phenomenon of subsonic hydrogen jet diffusion flames

Third Yellow Sea Rim Workshop on Explosion, Combustion and other Energetic Phenomena

Title: TURBULENT THERMAL FLUID FLOW TRANSPORT PHENOMENA OF AQUEOUS SUSPENSION OF NANO-DIAMOND PARTICLES

2009 INTERNATIONAL SYMPOSIUM ON NANO SCIENCE AND TECHNOLOGY

Title: TURBULENT HEAT TRANSFER BEHAVIOR OF NANOFUID IN A CIRCULAR TUBE HEATED UNDER CONSTANT HEAT FLUX

4th Yellow Sea Rim Workshop on Explosion, Combustion and Other Energetic Phenomena

Title: Flow visualization and thermal-fluid flow characteristics in single plate heat exchanger with various plate shapes formed by shock processing

2010 INTERNATIONAL SYMPOSIUM ON NANO SCIENCE AND TECHNOLOGY

Title : LIFT-OFF PHENOMENON AND ITS SUPPRESSION OF SUBSONIC HYDROGEN JET DIFFUSION FLAME FORMED AT MICRO NOZZLE TIP

Fifth Yellow Sea Rim Workshop on Explosion, Combustion and other Energetic Phenomena for Various Environmental Issues

Title: ACTION TO RENEWABLE ENERGY FOR GLOBAL-WARMING SUPPRESSION AND THE CORRESPONDING ADVANCED ENERGY-EXCHANGE AND -TRANSPORT TECHNOLOGY

2011 INTERNATIONAL SYMPOSIUM ON NANO SCIENCE AND TECHNOLOGY

Title: Advanced Energy-Production, -Exchange and -Transport Technologies for Global-Warming Suppression

International Conference on "Recent Advances and Challenges in Energy 2012" (RACE-2012)

Title: ADVANCED ENERGY-PRODUCTION, -EXCHANGE AND -TRANSPORT TECHNOLOGIES FOR GLOBAL-WARMING SUPPRESSION

Invited Talk in Northeastern University (China)

Title: Production Technology of Renewable and Green Energy

Invited Talk in Chungbuk National University (Korea)

Title: Production Technology of Renewable and Green Energy

Invited Talk in Chosun University (Korea)

Title: Production Technology of Renewable and Green Energy

Sixth Yellow Sea Rim Workshop on Explosion, Combustion and other Energetic Phenomena

Title: Fluid Flow Transport Phenomenon in Thermal-Induced Micro-Pump

International Conference on Emerging Trends in Manufacturing Technology

Title : Thermal Production of Green Energy - Thermal-Fluid Flow Transport Phenomenon of Subsonic Hydrogen Jet Diffusion Flame -

The Institution of Engineering (India)

Title : HEAT TRANSFER ENHANCEMENT IN CIRCULAR TUBE HEATED UNDER CONSTANT HEAT FLUX USING NANOFLUID

KL University

Title : Fluid Flow Transport Phenomenon in Thermal-Induced Micro-Pump

応用微奈米加工技術

Title : Fluid Flow Transport Phenomenon in Thermal-Induced Micro-Pump

National Kaohsiung University of Applied Sciences (Taiwan)

Title : Production Technology of Renewable and Green Energy

10th Japan-Brazil International Workshop on Energy, Environment and Sustainable Development

Title : Advanced Thermal-Energy-Production, -Exchange and -Transport Technologies using Biomass

Andong National University (Korea)

Title : Thermal Fluid-Flow Control in Opened or Closed Indoor with Injection and Suction Ducts
by Using Vertical Partition Plate

2nd World Conference on Applied Science, Engineering & Technology (WCSET2013)

Title : Thermal Performance of Multi-Heat-Pipe Cooling Device with the use of Nanofluid

National Institute of Technology Karnataka (NITK) (India)

Title : Advanced Energy-Production, -Exchange and -Transport Technologies

Association of Consulting Civil Engineers (I) Mangalore Center

Title : Advanced Energy-Production, -Exchange and -Transport Technologies

SAHYDRI COLLEGE OF ENGINEERING & MANAGEMENT

Title : Advanced Energy-Production, -Exchange and -Transport Technologies

2013 INTERNATIONAL SYMPOSIUM ON NANO SCIENCE AND TECHNOLOGY

Title : THERMAL FLUID FLOW TRANSPORT PHENOMENA IN CIRCULAR TUBE FLOW USING NANO-FLUIDS AND ITS
APPLICATION TO COOLING DEVICE

International Conference on Environment and Sustainable Technology-2014

Title : Development of Biomass Combustor and its Combustion Characteristics

Title : Enhancement of Heat Transfer Performance Using Nanofluid and Application to Cooling Device