International Union of Theoretical and Applied Mechanics

IUTAM International Union of Theoretical and Applied Mechanics

IUTAM Symposium on 50 Years of Chaos : Applied and Theoretical

November 28 (Mon) - December 2 (Fri), 2011

Kyoto University Clock Tower Centennial Hall, Kyoto, JAPAN

Book of Abstracts

Chair:
Takashi Hikihara (Kyoto University, Japan)

Co-Chair:
Tsutomu Kambe (The University of Tokyo (Former professor), Japan)

Scientific Committee:

Dick H. van Campen (Eindhoven University of Technology, Netherlands)

Philip Holmes (Princeton University, United States)

Edwin Kreuzer (Hamburg University of Technology, Germany)

Giuseppe Rega (Università degli Studi di Roma "La Sapienza", Italy)

Marian Wiercigroch (University of Aberdeen, United Kingdom)

Lai-Sang Young (Courant Institute of Mathematical Sciences, United States)

http://www-lab23.kuee.kyoto-u.ac.jp/iutam2011

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Kyoto University Clock Tower Centennial Hall, Kyoto, JAPAN

International Union of Theoretical and Applied Mechanics

Chair: Takashi Hikihara

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International Scientific Committee:

Kazuyuki Aihara (The University of Tokyo, Japan)
Balakumar Balacandran (University of Maryland, United States)
Mitsuaki Funakoshi (Kyoto University, Japan)
Tomasz Kapitaniak (The Technical University of Lodz, Poland)
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Hiroshi Yabuno (Keio University, Japan)

Local Committee:

General Chair :	Takashi Hikihara (Kyoto University)
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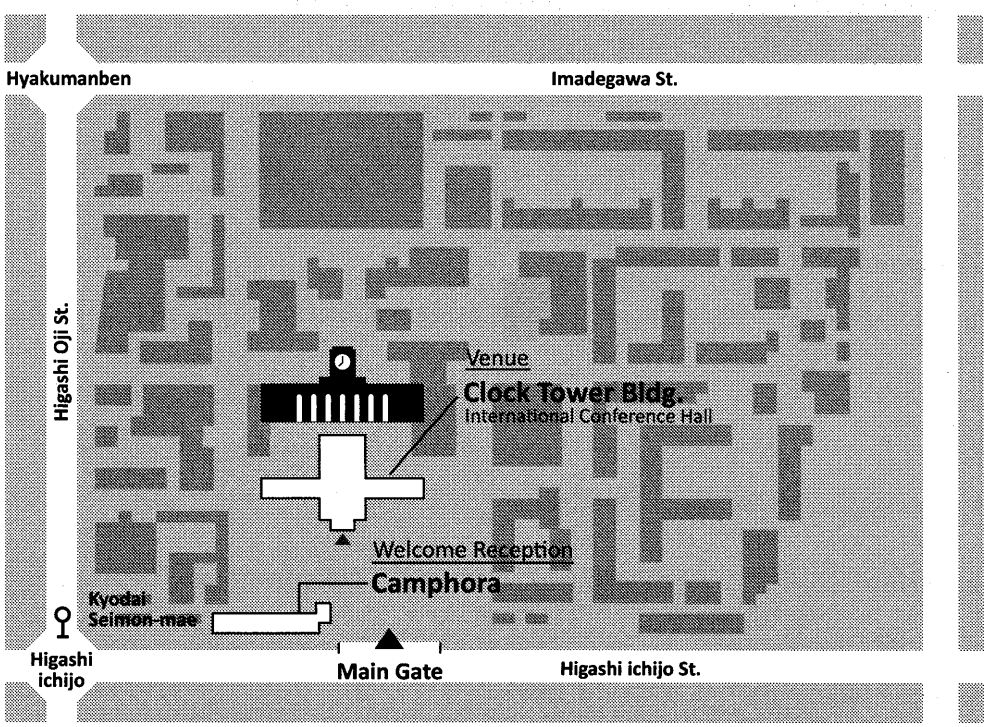
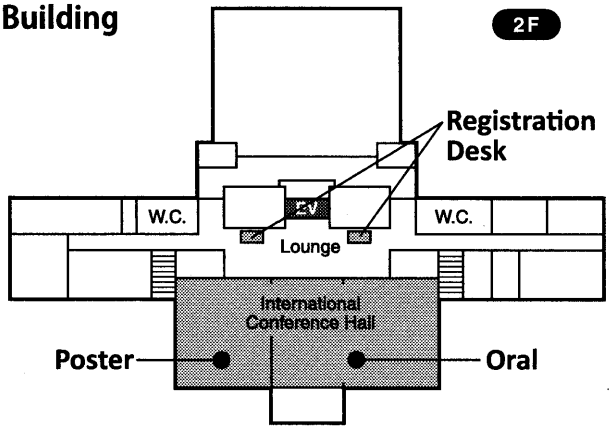
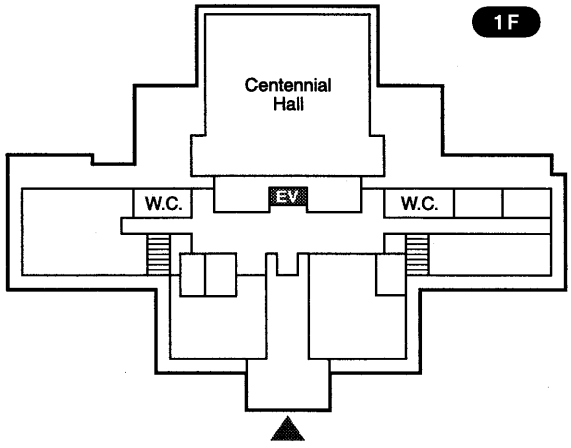


Clock Tower Building





	November 28 Monday	November 29 Tuesday	November 30 Wednesday	December 1 Thursday	December 2 Friday
9:00		**Remark by Vice-President of Kyoto University** 09:20 ~ 09:30			
9:30		**Session 4** **Random and Chaotic Dynamics** (Chair: Kohda, Tohru) C7 ~ C9 09:30 ~ 10:45	**Session 10** **Chaos and Applied Physics** (Chair: Moehlis, Jeffery) C23 ~ C25 09:30 ~ 10:45	**Session 17** **Chaos and Communications** (Chair: Namachchivaya, Navaratnam Sri) C34 ~ C37 09:30 ~ 11:10	**Session 20** **Dynamical Systems and Chaos** (Chair: Shishikura, Mitsuhiro) C40 ~ C42 09:30 ~ 10:45
10:00					
10:30		**Break**	**Break**		**Break**
11:00		**Session 5** **Chaos in Mechanical Dynamics** (Chair: Balachandra, Balakumar) C10 ~ C13 10:55 ~ 12:35	**Session 11** **Statistical Properties in Dynamics** (Chair: Daido, Hiroaki) C26 ~ C28 10:55 ~ 12:10	**Break** **Session 18** **Applied Chaos** (Chair: Aihara, Kazuyuki) **S4 - Yorke, James A.** 11:20 ~ 12:20	**Session 21** **Spatio-temporal Dynamics in Physics** (Chair: Putkaradze, Vakhtang) C43 ~ C46 10:55 ~ 12:35
11:30					
12:00					
12:30	**On-site registration starts**		Lunch Break		
13:00		Lunch Break		Lunch Break	**Closing Ceremony** 12:35 ~ 12:45
13:30					
14:00	**Opening Ceremony** 14:00 ~ 14:30	**Session 6** **Nonlinear Engineering** (Chair: Hikihara, Takashi) **S2 - Moon, Francis C.** 14:00 ~ 15:00	**Session 12** **Statistical Physics** (Chair: Kambe, Tsutomu) **S3 - Ruelle, David** 14:00 ~ 15:00	**Session 19** **Chaos Revolution** (Chair: Holmes, Philip) C38 ~ C39 14:00 ~ 14:50	**Excursion** (optional)
14:30	**Session 1** **History of Chaos** (Chair: Hikihara, Takashi) **S1 - Holmes, Philip** 14:30 ~ 15:30			**S5 - Ueda, Yoshisuke** 14:50 ~ 15:50	
15:00		Break	Break		
15:30	Break	**Session 7** **Energy Applications in Dynamics** (Chair: Yabuno, Hiroshi) C14 ~ C16 15:10 ~ 16:25	**Session 13** **Chaos and Fluid Physics (1)** (Chair: Mezić, Igor) C29 ~ C30 15:10 ~ 16:00	**Let's take a group photo!**	
16:00	**Session 2** **Identification and Chaotic Dynamics** (Chair: Kokubu, Hiroshi) C1 ~ C2 15:40 ~ 16:30		Break		
16:30	Break	Break	**Session 14** **Chaos and Fluid Physics (2)** (Chair: Eckhardt, Bruno) C31 ~ C33 16:10 ~ 17:25		
17:00	**Session 3** **Biological Dynamics** (Chair: Doi, Shinji) C3 ~ C5 16:40 ~ 17:55	**Session 8** **Control and Stability in Mechanical Dynamics** (Chair: Wiercigroch, Marian) C17 ~ C20 16:35 ~ 18:15			
17:30			Break		
18:00	Break		**Session 15** **Short Talks for Poster Presentations** (Chair: Hikihara, Takashi) 17:35 ~ 18:35		
18:30		Break			
	Welcome Reception 18:30 ~	**Session 9** **Non-smooth Dynamics** (Chair: Kapitaniak, Tomasz) C21 ~ C22 18:25 ~ 19:15	**Session 16** **Poster Presentations** 18:35 ~ 20:30		
19:00				**Symposium Banquet** 19:00 ~	
19:30					
20:00					

Registration

On-Site Registration Desk Opening Hours:

Monday: 12:30-18:00

Tuesday: 9:15-19:00

Wednesday: 9:15-19:00

Thursday: 9:15-15:00

Friday: 9:15-11:00

Social Program

Welcome Reception:

Monday 18:30-, at Kyoto University Camphora

Symposium Banquet:

Thursday 19:00-, at the Garden Oriental Kyoto

Excursion:

Friday 14:00-18:00, to Enryakuji Temple, Kyoto

Technical Program

S = Special Lecture (60-min including discussion)
C = Contributed Talk (20-min talk + 5-min discussion)
Coffee and tea are always served during the symposium.

Monday, November 28, 2011

12:30 On-site registration starts.

Opening Ceremony 14:00-14:30

14:00 Remark from IUTAM General Assembly
14:10 Remark by Kambe, Tsutomu (Symposium Co-Chair)
14:20 Remark by Hikihara, Takashi (Symposium Chair)

Session 1 - History of Chaos 14:30-15:30

Chair: Hikihara, Takashi

14:30 **S1** - Holmes, Philip
A Short, Truncated, and Partial History of Chaos

Break 15:30

Session 2 - Identification and Chaotic Dynamics 15:40-16:30

Chair: Kokubu, Hiroshi

15:40 **C1** - Namachchivaya, Navaratnam Sri
From Random to Data Driven Dynamical Systems: Application to the Lorenz-96 Atmospheric Model

16:05 **C2** - Kohda, Tohru
Binary Sequences Using Chaotic Dynamics and Their Applications to Communications

Break 16:30

Session 3 - Biological Dynamics 16:40-17:55

Chair: Doi, Shinji

16:40 **C3** - Nakajima, Koji
Dynamic Characteristics of Neuron Models and Active Areas in Potential Functions

17:05 **C4** - Tsuchiya, Masa
Finding Biological Roles of Averaging Effect of Large Numbers: The Existence of Genome Vehicles Guiding Cell Fate Decision

17:30 **C5** - Hirata, Yoshito
Typical Chaotic Dynamics in Squid Giant Axons

C6 (canceled)

Break 17:55

Welcome Reception 18:30

Tuesday, November 29, 2011

9:20 Remark by Vice-President of Kyoto University

Session 4 - Random and Chaotic Dynamics 9:30-10:45

Chair: Kohda, Tohru

9:30 **C7** - Balachandran, Balakumar
Noise-enhanced Response of Nonlinear Oscillators

9:55 **C8** - Sanjuán, Miguel A. F.
Partial Control of Noisy Chaotic Transients Using Escape Times

10:20 **C9** - Kapitaniak, Tomasz
How Chaotic (or Random) is the Dice Throw?

Break 10:45

Session 5 - Chaos in Mechanical Dynamics 10:55-12:35

Chair: Balachandra, Balakumar

10:55 **C10** - Lacarbonara, Walter
Nonlinear Phenomena in Hysteretic Systems

11:20 **C11** - Gottlieb, Oded
Chaos in Thermo-visco-elastic Systems Subject to Laser Irradiation

11:45 **C12** - Warminski, Jerzy
Regular and Chaotic Vibrations of Self-Excited Oscillators Driven by Parametric and External Excitations

12:10 **C13** - Ario, Ichiro
Hierarchical Structural Analysis for the Multi-folding Structures with Hill-top Bifurcation Points

Lunch Break 12:35

Session 6 - Nonlinear Engineering 14:00-15:00

Chair: Hikihara, Takashi

14:00 **S2** - Moon, Francis C.
Vibro-wind Energy Scavenging: An Example of Nonlinear Engineering

Break 15:00

Session 7 - Energy Applications in Dynamics 15:10-16:25

Chair: Yabuno, Hiroshi

15:10 **C14** - Wiercigroch, Marian
Complex Dynamics of Pendulums for Energy Harvesting

15:35 **C15** - Moehlis, Jeffery
An Energy Harvester for Broadband Vibrations

16:00 **C16** - Miyano, Takaya
Augmented Lorenz Equations as Physical Model for Chaotic Gas Turbine

Break 16:25

Session 8 - Control and Stability in Mechanical Dynamics 16:35-18:15

Chair: Wiercigroch, Marian

16:35 **C17** - Lenci, Stefano
Controlling Nonlinear Dynamics of Systems Liable to Unstable Interactive Buckling

17:00 **C18** - Sato, Masayuki
Analysis of ILM Logic Operations via van der Pol Phase Planes

17:25 **C19** - Yoshimura, Kazuyuki
Stability of Discrete Breathers in Diatomic Fermi-Pasta-Ulam Type Lattices

17:50 **C20** - Yabuno, Hiroshi
Stabilization of Buckled Beam with Coulomb Friction by High-Frequency Excitation

Break 18:15

Session 9 - Non-smooth Dynamics 18:25-19:15

Chair: Kapitaniak, Tomasz

18:25 **C21** - Pavlovskaia, Ekaterina
Chaotic Dynamics of Impact Oscillator with SMA Constraint

18:50 **C22** - Cao, Qingjie
Non-hyperbolic Equilibria of SD Oscillator

Wednesday, November 30, 2011

Session 10 - Chaos and Applied Physics 9:30-10:45

Chair: Moehlis, Jeffery

9:30 **C23** - Uzer, Turgay
Double Ionization with Intense Laser Pulses: Insights from Chaos Theory

9:55 **C24** - Palacios, Antonio
Heteroclinic Cycles in Coupled Systems with Applications to Sensor Devices

10:20 **C25** - Longhini, Patrick
Modeling Coupled Serial Non-Uniform bi-SQUIDs

Break 10:45

Session 11 - Statistical Properties in Dynamics 10:55-12:10

Chair: Daido, Hiroaki

10:55 **C26** - Putkaradze, Vakhtang
Geometric Approach to the Dynamics of Charged Strings

11:20 **C27** - Komatsu, Nobuyoshi
Time-Reversibility, Instability and Thermodynamics in N-body Systems Interacting with Long-Range Potentials

11:45 **C28** - Miyazaki, Syuji
Network Analysis Based on Statistical-Thermodynamical Formalism

Lunch Break 12:10

Session 12 - Statistical Physics 14:00-15:00

Chair: Kambe, Tsutomu

14:00 **S3** - Ruelle, David
From the Theory of Chaos to Nonequilibrium Statistical Mechanics

Break 15:00

Session 13 - Chaos and Fluid Physics (1) 15:10-16:00

Chair: Mezić, Igor

15:10 **C29** - Cvitanović, Predrag
Geometry of State Space in Plane and Pipe Flows

15:35 **C30** - Eckhardt, Bruno
Turbulence Transition in Shear Flows: Chaos in High-dimensional Spaces

Break 16:00

Session 14 - Chaos and Fluid Physics (2) 16:10-17:25

Chair: Eckhardt, Bruno

16:10 **C31** - Funakoshi, Mitsuaki
Chaotic Mixing by a Flow in a Curved Pipe

16:35 **C32** - Adachi, Shizuko
Chaotic Streamlines in Steady Cavity Flows

17:00 **C33** - Mezić, Igor
Spectral Theory of Nonlinear Fluid Flows Based on the Koopman Operator

Break 17:25

Session 15 - Short Talks for Poster Presentations 17:35-18:35

Chair: Hikihara, Takashi

Session 16 - Poster Presentations 18:35-20:30

Light treatment (foods, desserts, and drinks) is served.
2011 Kyoto Workshop on NOLTA is concurrently held.

Thursday, December 1, 2011

Session 17 - Chaos and Communications 9:30-11:10

Chair: Namachchivaya, Navaratnam Sri

9:30 **C34** - Horio, Yoshihiko
β-expansion's Attractors Observed in A/D converters

9:55 **C35** - Sunada, Satoshi
Theory and Experiments of Fast Non-deterministic Random Bit Generation Using On-chip Chaos Lasers

10:20 **C36** - Umeno, Ken
Exactly Solvable Chaos and Codes for Communications and Analysis

10:45 **C37** - In, Visarath
Nonlinear Channelizer for RF Communication

Break 11:10

Session 18 - Applied Chaos 11:20-12:20

Chair: Aihara, Kazuyuki

11:20 **S4** - Yorke, James A.
The Many Facets of Chaos

Lunch Break 12:20

Session 19 - Chaos Revolution 14:00-15:50

Chair: Holmes, Philip

14:00 **C38** - Kokubu, Hiroshi
Topological-Computational Methods for Analyzing Global Dynamics and Bifurcations

14:25 **C39** - Aihara, Kazuyuki
Chaos and its Applications

14:50 **S5** - Ueda, Yoshisuke
How a Broken Egg Attractor Has Influenced Dynamics of My Life?

Let's take a group photo! 15:50

Symposium Banquet 19:00

Friday, December 2, 2011

Session 20 - Dynamical Systems and Chaos 9:30-10:45

Chair: Shishikura, Mitsuhiro

9:30 **C40** - Mischaikow, Konstantin
A Combinatorial Framework for Nonlinear Dynamics

9:55 **C41** - Lenci, Marco
The Idea of Infinite-Volume Limit for Some Notions of Mixing in Infinite Ergodic Theory

10:20 **C42** - Tucker, Warwick
Validated Numerics and Hilbert's 16th Problem

Break 10:45

Session 21 - Spatio-temporal Dynamics in Physics 10:55-12:35

Chair: Putkaradze, Vakhtang

10:55 **C43** - Daido, Hiroaki
Dynamics of Large Ensembles of Coupled Active and Inactive Oscillators

11:20 **C44** - Nakao, Hiroya
Phase Description of Periodic Solutions in Reaction-diffusion Systems

11:45 **C45** - Ishizaki, Ryuji
Statistical Properties of Fluctuation for Charged Fine Particles in an AC Trap

12:10 **C46** - Yoshikawa, Kenichi
Spontaneous Mode Selection of Self-Motile Object under Chemical Noneqilibricity

Closing Ceremony 12:35-12:45

12:35 Remark by Hikihara, Takashi (Symposium Chair)

Excursion (optional) 14:00

Poster Presentations

P1 - Budišić, Marko
Ergodic Coordinates for a Perturbed Hill's Spherical Vortex Flow

P2 - Miranda, Rodrigo A.
Lagrangian Coherent Structures at the Onset of Permanent Spatiotemporal Chaos in the 2D Navier-Stokes Equations

P3 - Inubushi, Masanobu
Covariant Lyapunov Analysis of Chaotic Kolmogorov Flows and Time-correlation Function

P4 - Wells, John C.
Tracking Chaotic Behavior in Environmental Hydraulics. Measurement Models for the Temporal Coefficients of Proper Orthogonal Decomposition of Free-Surface Flows

P5 - Kecik, Krzysztof
Chaos in Mechanical Systems. Selected Problems

P6 - Woo, Ko-Choong
Optimised Progression Rates in Soil by means of Vibro-impact Motion

P7 - Yokoi, Yuichi
Tolerance of Delayed Feedback Control for Maintaining Periodic Rotation

P8 - Hata, Shigefumi
Stochastic Phase Reduction for Noisy Limit-cycle Oscillators

P9 - Morino, Kai
Aging Transitions in Multi-layer Networks of Coupled Oscillators

P10 - Matsui, Katsuhito
Fluctuation-spectra of Few- and Large-degrees-of-freedom Chaotic Systems

P11 - Nakada, Kazuki
Noise-induced Phenomena in Two Strongly Pulse-coupled Spiking Neuron Models

P12 - Luan, Ba Le
Stability Analysis of a Steady State in Three Time-delayed Nonlinear Oscillators Coupled by a Static Connection

P13 - Horikawa, Yo
Exponential Transient Rotating Waves and Their Bifurcations in a Ring of Unidirectionally Coupled Bistable Lorenz Systems

P14 - Kimura, Masayuki
A Study on Intrinsic Localized Modes in a Macro-mechanical Cantilever Array with Tunable On-site Nonlinearity

P15 - Teramoto, Hiroshi
Dynamical Switching of a Reaction Coordinate Triggered by Breakdown of a Normally Hyperbolic Invariant Manifold

P16 - Saiki, Yoshitaka
Relations between Statistical Values along Unstable Periodic Orbits in Differential Equation Systems

P17 - Shiro, Masanori
Chaotic Properties in Musical Sounds

P18 - Takahashi, Ryo
Inner Angles Made of Consecutive Three Points on a Circle for Chaotic and Random Series

P19 - Hisakado, Takashi
Connection from Single-Phase to Three-Phase Circuit Using Free Oscillation Circuits

P20 - Susuki, Yoshihiko
Dynamical Systems Methods for Electric Power Transmission: New Phenomenology and Future Smart Design

Abstracts (Special Lectures)

Abstracts (Contributed Talks)

Abstracts (Poster Presentations)

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November 28, 2011

Correction of Book of Abstracts

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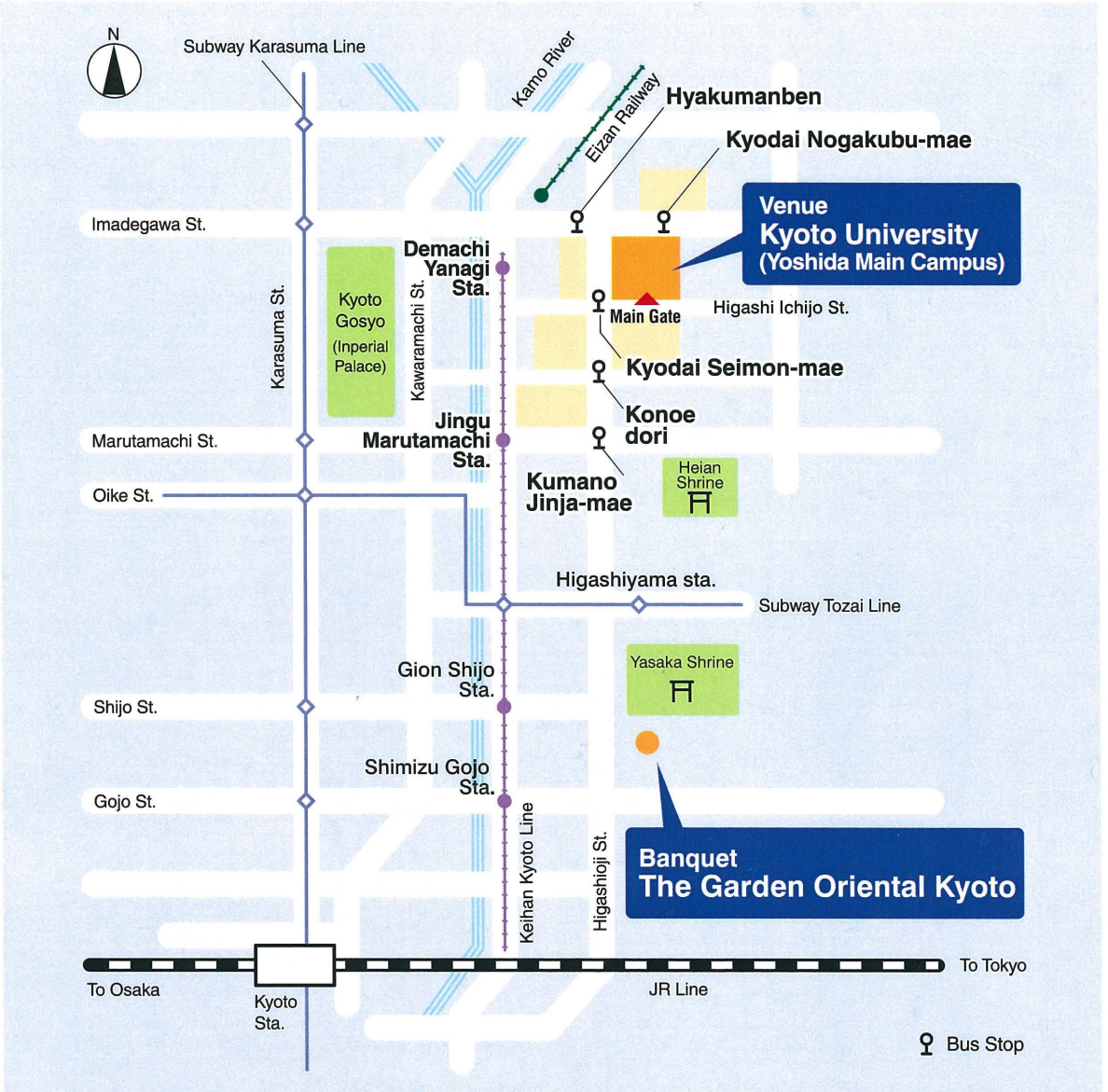
Co-Sponsors

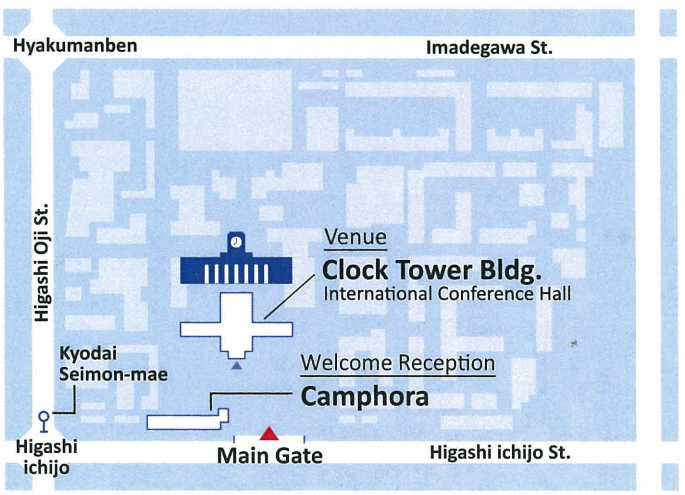
Commemorative organization for the Japan World Exposition '70

Kansai Research Foundation for technology promotion (KRF)

Access Map



Kyoto University (Yoshida Main Campus)



Venue

Kyoto University (Yoshida Main Campus)

Yoshida, Sakyo, Kyoto 606-8501 Japan
Phone:+81-75-753-7531

Banquet

The Garden Oriental Kyoto

366 Yasaka Kamimachi, Higashiiru, Shimogawara,
Yasaka Dori, Higashiyama, Kyoto 605-0827 Japan
Phone:+81-75-541-3331

*Keihan Main Line Gion-Shijo Station 15-minute walk
*Hankyu Kyoto Line Kawaramachi Station 20-minute walk