

# Workshop / Oral Session Programme

14th September Sunday

15:30 - 19:00

## Registration

Venue: **Conference Room III**, (Clock Tower Bldg. 2F)

17:00 - 20:00

## Welcome Reception

Venue: **Camphora** (Yoshida Main Campus)

\* Please join us for a drink and a light meal at the welcome reception to be held on the Conference site.

15th September Monday

Venue: **Centennial Hall**, (Clock Tower Bldg. 1F)

Time	Abstract No.	Presenting Author (Affiliation, Country) "Title"
09:30 - 09:50		<b>Opening</b> Opening Y.Shirai, professor of Kyoto University Message T.Hyodo, president of The Physical Society of Japan In memory of Professor A.Stewart by T.Hyodo Venue: <b>Centennial Hall</b> , (Clock Tower Bldg. 1F)
09:50 - 10:40		<b>Keynote</b>
09:50 - 10:40		Toshio Hyodo (Institute of Materials Structure Science, KEK, Japan) "Surface Sensitivity of Total-reflection high-energy positron diffraction (TRHEPD) and its applications"
10:40 - 11:00		<b>Coffee/Tea Break</b> Venue: <b>Conference Room III</b> , (Clock Tower Bldg. 2F)
11:00 - 12:10		<b>Semiconductors I</b> <b>CHAIR: I.Makkonen</b>
11:00 - 11:30	15-I01 <b><u>Invited</u></b>	S. Ishibashi (National Institute of Advanced Industrial Science and Technology «AIST», Japan) "Computational Studies of Positron States and Annihilation Parameters in Semiconductors – Vacancy-Type Defects in Group-III Nitrides –"
11:30 - 11:50	15-O01	F. Linez (Aalto University, Finland) "Implantation induced defects evolution at room temperature in InN "
11:50 - 12:10	15-O02	Shijuan Huang (University of Science and Technology of China, China) "Investigation and Calculation of Positron Lifetimes of monovacancies in crystals "

<b>12:10 - 13:30</b>		<b>Lunch</b> (80min) Venue: room No. <b>160,164</b> and <b>166</b> , (Faculty of Engineering Bldg. No.6. 1F)
<b>13:30 - 14:30</b>		<b>Poster Session</b> Venue: room No. <b>163</b> , (Faculty of Engineering Bldg. No.6. 1F)
<b>14:30 - 15:40</b>		<b>Semiconductors II</b> CHAIR: <b>S.Ishibashi</b>
14:30 - 15:00	15-I02 <b><u>Invited</u></b>	I. Makkonen (Aalto University School of Science, Finland) "Analogous polaronic trapping of positrons and holes on acceptor sites in ZnO and GaN"
15:00 - 15:20	15-O03	J. Slotte (Aalto University, Finland) "Native point defects in GaSb"
15:20 - 15:40	15-O04	N. Segercrantz (Aalto University, Finland) "Positron measurements and calculations in bulk and epitaxial GaSb"
<b>15:40 - 16:00</b>		<b>Coffee/Tea Break</b> Venue: <b>Conference Room III</b> , (Clock Tower Bldg. 2F)
<b>16:00 - 16:20</b>		<b>Semiconductors III</b> CHAIR: <b>M.Fujinami</b>
16:00 - 16:20	15-O05	J. Melskens (Delft University of Technology, The Netherlands) "Novel insights into the nature and kinetics of metastable defects in hydrogenated amorphous silicon"
<b>16:20 - 16:40</b>		<b>Molecular media</b> CHAIR: <b>M.Fujinami</b>
16:20 - 16:40	15-O06	S.V. Stepanov (National Research Nuclear University «MEPhI» / Institute of Theoretical and Experimental Physics, Russia) "Premelting as studied by positron annihilation spectroscopy"

## 16th September Tuesday

Venue: **International Conference Hall II**, (Clock Tower Bldg. 2F)

Time	Abstract No.	Presenting Author (Affiliation, Country) "Title"
<b>09:30 - 10:40</b>		<b>Metals I</b> CHAIR: <b>W.Sprengel</b>

09:30 - 10:00	16-I01 <b><u>Invited</u></b>	J. Cizek (Charles University in Prague, Czech Republic) "Spatial Distribution of Defects in Ultra Fine Grained Metals Prepared by High Pressure Torsion"
10:00 - 10:20	16-O01	F. Lukac (Charles University In Prague, Czech Republic) "Microstructure and Thermal Stability of Ultra Fine Grained Ti Prepared by Severe Plastic Deformation "
10:20 - 10:40	16-O02	H. Li (Japan Atomic Energy Agency, Japan) "Effect of magnetic field on positron lifetime in ferromagnets "
<b>10:40 - 11:00</b>	<b>Coffee/Tea Break</b> Venue: <b>International Conference Hall II</b> , (Clock Tower Bldg. 2F)	
<b>11:00 - 12:10</b>	<b>Metals II CHAIR: J.Cizek</b>	
11:00 - 11:30	16-I02 <b><u>Invited</u></b>	M. Fujinami (Chiba University, Japan) "Positron annihilation spectroscopy in the hydrogen-related defects in metals"
11:30 - 11:50	16-O03	N. Oshima (National Institute of Advanced Industrial Science and Technology «AIST», Japan) "Vacancy Analysis with a Positron Microprobe for Hydrogen Embrittlement under Elastic Stress of Tempered Martensitic Steels"
11:50 - 12:10	16-O04	Z. Q. Chen (Wuhan University, China) "Confinement of positrons in embedded nanoclusters: A shallow positron trap"
<b>12:10 - 13:30</b>	<b>Lunch</b> (80min) *You can have lunch with your name card at <b>Central cafeteria</b> , B1F in the basement of Research Bldg. No.8	
<b>13:30 - 14:30</b>	<b>Poster Session</b> Venue: room No. <b>163</b> , (Faculty of Engineering Bldg. No.6. 1F) *See p4 for venue	
<b>14:30 - 16:40</b>	<b>Metals III 14:30-15:20 CHAIR: H.Araki 15:40-16:40 CHAIR: Z.Q.Chen</b>	
14:30 - 15:00	16-I03 <b><u>Invited</u></b>	W. Sprengel (Graz University of Technology, Austria) "Specific volume in a bulk metallic glass studied with complementary techniques of dilatometry and in-situ Doppler broadening"
15:00 - 15:20	16-O05	M. Vlcek (Charles University in Prague, Czech Republic) "Precipitation Effects in Mg-Zn-Y Alloys Strengthened by Quasicrystalline Phase"

<b>15:20 - 15:40</b>		<b>Coffee/Tea Break</b>
15:40 - 16:10	16-I04 <b><u>Invited</u></b>	M. Mizuno (Osaka University, Japan) "Theoretical calculation of positron affinity in aluminum alloys"
16:10 - 16:40	16-I05 <b><u>Invited</u></b>	K. Inoue (Tohoku University, Japan) "Numerous vacancies induced by $\beta$ "phase formation in Al-Mg-Si alloys"

## 17th September Wednesday

Venue: **International Conference Hall II**, (Clock Tower Bldg. 2F)

<b>Time</b>	<b>Abstract No.</b>	<b>Presenting Author (Affiliation, Country) "Title"</b>
<b>09:30 - 11:40</b>		<b>Positron Beam techniques CHAIR: R.Krause-Rehberg</b>
09:30 - 10:00	17-I01 <b><u>Invited</u></b>	C. Hugenschmidt (Technische Universität München, Germany) "Depth dependent Doppler broadening spectroscopy as quality check of Heusler single crystals for ACAR experiments"
10:00 - 10:20	17-O01	M.Reiner (Technische Universität München, Germany) "Depth dependent positron annihilation spectroscopy on single crystalline YBCO thin films"
10:20 - 10:40	17-O02	Samantha Zimnik (Technische Universität München, Germany) "Investigation of the Fe/Pt surface using PAES, XPS and STM"
<b>10:40 - 11:00</b>		<b>Coffee/Tea Break</b>
11:00 - 11:20	17-O03	P. Hruska (Charles University in Prague, Czech Republic) "Defect Studies of Mg Films Deposited on Various Substrates"
11:20 - 11:40	17-O04	N. Qi (Wuhan University, China) "Selective trapping of positrons by Ag nanolayer in V/Ag multilayer system studied by slow positron beam"
<b>11:40 - 12:00</b>		<b>Conference Photo</b>

<b>12:00 - 13:00</b>	<b>Lunch</b> (60min) *You can have lunch with your name card at <b>Central cafeteria</b> , B1F in Research Bldg. No.8
<b>13:00 - 18:30</b>  13:00 - 13:30 - 14:45 15:00 - 16:15 16:45 - 18:30	<b>Conference Excursions (exclude lunch)</b> Itinerary: Kyoto University Kinkaku-ji (Golden Pavilion) Ryoan-ji Kiyomizu temple
<b>18:30 - 21:00</b>	<b>Conference Banquet</b> Venue: <b>THE SODOH HIGASHIYAMA KYOTO</b>

## 18th September Thursday

Venue: **International Conference Hall II**, (Clock Tower Bldg. 2F)

<b>Time</b>	<b>Abstract No.</b>	<b>Presenting Author (Affiliation, Country) "Title"</b>
<b>09:30 - 12:00</b>		<b>Metals IV 9:30-10:40 CHAIR: A.Kinomura 11:00-12:00 CHAIR: T.Yoshiie</b>
09:30 - 10:00	18-I01 <b><u>Invited</u></b>	T. Yoshiie (Kyoto University, Japan) "Point Defect Processes for Void Growth in HighEnergy Particle Irradiated Metals"
10:00 - 10:20	18-O01	S. Pecko (Slovak University of Technology in Bratislava, Slovakia) "Positron annihilation lifetime study of JRQ and JPA irradiated and annealed reactor pressure vessel steels"
10:20 - 10:40	18-O02	B.Y. Wang (Institute of High Energy Physics, CAS, China) "Study of electron irradiation effects on FeCrNi alloys using positron annihilation spectroscopy"
<b>10:40 - 11:00</b>		<b>Coffee/Tea Break</b>
11:00 - 11:20	18-O03	Y. Nagai (Tohoku University, Japan) "Nuclear Materials Study by Age-Momentum Correlation Method"
11:20 - 11:40	18-O04	V. Sabelová (Slovak University of Technology in Bratislava, Slovakia) "Helium behaviour in the ferritic/martensitic steels irradiated in spallation target"
11:40 - 12:00	18-O05	Z. Li (Tsinghua University, China) "Fe-Ion Implantation Induced Vacancy-Solute Complexes in Reactor Pressure Vessel Model Alloys Studied by Positron Annihilation Doppler Broadening"

<b>12:00 - 13:30</b>		<b>Lunch</b> (90min) *You can have lunch with your name card at <b>Central cafeteria</b> , B1F in the basement of Research Bldg. No.8
<b>13:30 - 15:00</b>		<b>Metals V CHAIR: Y.Nagai</b>
13:30 - 14:00	18-I02 <b><u>Invited</u></b>	A. Kinomura (National Institute of Advanced Industrial Science and Technology «AIST», Japan) “Transient Measurements of Irradiation Damage by In-Situ Positron Lifetime Spectroscopy”
14:00 - 14:20	18-O06	I. Bartošová (Slovak University of Technology in Bratislava, Slovak Republic) “Study of radiation damage in ODS steels by positron annihilation spectroscopy”
14:20 - 14:40	18-O07	A. Zeman (International Atomic Energy Agency «IAEA», Austria) “Investigation of high-copper reactor pressure vessel steels: effect of irradiation and annealing”
14:40 - 15:00	18-O08	S. Zhang (Delft University of Technology, The Netherlands) “Self healing of defects by Cu and Au precipitation in Fe-based alloys”
<b>15:00 - 15:20</b>		<b>Coffee/Tea Break</b>
<b>15:20 - 17:30</b>		<b>Metal oxides 15:20-16:10 CHAIR: R.Ferragut 16:30-17:30 CHAIR: F.Tuomisto</b>
15:20 - 15:50	18-I03 <b><u>Invited</u></b>	F. Tuomisto (Aalto University, Finland) “Fingerprints of oxygen vacancies in oxides”
15:50 - 16:10	18-O09	I. Prochazka (Charles University in Prague, Czech Republic) “Characterization of Irradiation-Induced Defects in ZnO Single Crystals”
<b>16:10 - 16:30</b>		<b>Coffee/Tea Break</b>
16:30 - 16:50	18-O10	F. A. Selim (Bowling Green State University, USA) “Positron Lifetime Measurements of Origin of Photoconductivity in SrTiO <sub>3</sub> ”
16:50 - 17:10	18-O11	M.-F. Barthe (CEMHTI / CNRS, Université d’Orléans, France) “Vacancy defects in UO <sub>2</sub> : experimental and theoretical results”
17:10 - 17:30	18-O12	Rafael Ferragut (Politecnico di Milano, Italy) “Porosities and defects in metal-oxide semiconductors”

19th September Friday

Venue: International Conference Hall II, (Clock Tower Bldg. 2F)

Time	Abstract No.	Presenting Author (Affiliation, Country) "Title"
<b>09:30 - 11:20</b>		<b>New techniques CHAIR: C.Hugenschmidt</b>
09:30 - 10:00	19-I01 <b><i>Invited</i></b>	R. Krause-Rehberg (University Halle, Germany) "Advances at MePS and news of the Halle positron lab"
10:00 - 10:20	19-O01	Q. Xu (Kyoto University, Japan) "Design and Construction of Reactor-Based Positron Beam Facility at Kyoto University"
<b>10:20 - 10:40</b>		<b>Coffee/Tea Break</b>
10:40 - 11:00	19-O02	T. Gigl (Technische Universität München, Germany) "Development of a Micrometer Positron Beam for Non-Destructive 3D-Defect Imaging"
11:00 - 11:20	19-O03	M. Maekawa (Japan Atomic Energy Agency, Japan) "Development of spin-polarized positronium time-of-flight measurement"
<b>11:20 - 11:40</b>		<b>Closing</b> Venue: <b>International Conference Hall II</b> (Clock Tower Bldg. 2F)