

B-8 Oral Session

Invited	Presentation No.	Start	End	First name	FAMILY NAME	Affiliation	Abstract title
24 Mon Electrochem. & Bio: Chair (T.Nakamura, AIST)							
Invited	B-8-I24-001	10:30	10:50	Michal	POMORSKI	CEA, LIST	Diamond for actinide traces detection and spectrometry in liquids
	B-8-O24-002	10:50	11:05	Yasuaki	Einaga	Keio Univ.	Recent development on electroanalytical application of boron-doped diamond electrodes
	B-8-O24-003	11:05	11:20	Stoffel	JANSENS	Hasselt University	Phase Separation of Ethanol-Water Solutions at Diverse Terminated Diamond Surfaces
	B-8-O24-004	11:20	11:35	Amel	BENDALI	INSERM U968	Synthetic diamond and graphene based implants for neuroprostheses applications: from biocompatibility to interaction with tissues
Invited	B-8-I24-005	11:35	11:50	Jim	ZHI	Technical Inst. of Physics and Chemistry, Chinese Academy of Sci	The fabrication of nanostructures of boron-doped diamond electrodes
Lunch 12:00 13:30							
New plasma & methods: Chair (M.Pomorski, CEA)							
	B-8-O24-006	13:30	13:45	Takako	NAKAMURA	National Inst. of Advanced Industrial Science and Technol.	Sulfur-functionalized Diamond Powder Surface for Attachment of Gold and Biomolecules
Invited	B-8-I24-007	13:45	14:05	Paul	MAY	University of Bristol	Microplasma arrays from CVD diamond
	B-8-O24-008	14:05	14:20	Yonhua	TZENG	National Cheng Kung University	A new method of chemically enhanced diamond nucleation by microwave plasma CVD
	B-8-O24-009	14:20	14:35	Kenji	NOSE	The Univ. Tokyo	High-resolution Raman spectroscopy for diamond-like carbon thin film
	B-8-O24-010	14:35	14:50	Hamed	VAEZ-TAGHAVI	Tokyo Institute of Technology	Investigation of friction properties of Mg-doped amorphous carbon films deposited in electron beam excited plasma
Coffee break 15:00 15:15							
NCD: Chair (K.Haenen, Hasselt U)							
Invited	B-8-I24-011	15:15	15:35	Oliver	WILLIAMS	Cardiff University	Nanocrystalline Diamond Films and Particles
	B-8-O24-012	15:35	15:50	Cyrril	POPOV	University of Kassel	AlN/Ultrananocrystalline Diamond High Frequency SAW Nano Device
	B-8-O24-013	15:50	16:05	Sausan	AL-RIYAMI	Interdisciplinary Graduate School of Eng. Science, Kyushu Univ.	Nitrogen-Doped Ultrananocrystalline Diamond/Hydrogen-Free Amorphous Carbon Composite Films Prepared by Pulsed Laser Deposition
	B-8-O24-014	16:05	16:30	Xiaojun	HU	Zhejiang University of Technology	n-type doping of ultrananocrystalline diamond films by ion implantation
NCD: Chair (O.Williams, Cardiff U)							
Invited	B-8-I24-015	16:30	16:50	Alexander	KROMKA	Institute of Physics of the ASCR, v.v.i.	Novel Perspectives of Nanocrystalline Diamond Films
	B-8-O24-016	16:50	17:05	Elisseos	VERVENIOTIS	Institute of Physics, ASCR, Czech Republic	Nanocrystalline Diamond Growth on a-Si:H
	B-8-O24-017	17:05	17:20	Emmanuel	SCORSONE	Research scientist	Resonant diamond MEMS biosensors for trace detection in liquids
	B-8-O24-018	17:20	17:30	Ken	HAENEN	Hasselt University	Diamond nucleation on AlN and metals: Influence of plasma pretreatments
25 Tue Detectors & Sensor: Chair (J.Kaneko, Hokkaido U)							
Invited	B-8-I25-001	10:30	10:50	John	MORSE	European Synchrotron Radiation Facility	Single Crystal Diamond for Synchrotron X-ray Beam Monitoring
	B-8-O25-002	10:50	11:05	Benoit	CAYLAR	CEA-LIST	Novel 3D micro-structuring of diamond for radiation detector applications: enhanced performances evaluated under particles and photons beams.
	B-8-O25-003	11:05	11:20	Meiyong	LIAO	National Institute for Materials Science	Strategies to develop single crystal diamond deep-ultraviolet detectors
Invited	B-8-I25-004	11:20	11:40	Jose	ALVAREZ	Laboratoire de Genie Electrique de Paris (LGEP)	Ultraviolet photodetectors based on hydrogenated/oxidized diamond surfaces
	B-8-O25-005	11:40	11:55	Jie	SONG	State Key Laboratory of Superhard Materials	Various gas plasma etching processes of diamonds coated with a gold layer
Lunch 12:00 13:30							
Growth, doping epi: Chair (B.Rezek, ASCR)							
Invited	B-8-I25-006	13:30	13:50	Fanxiu	LU	University of Science and Technology Beijing	DC Arc Plasma Jet Growth of Large Area High Quality Freestanding Diamond Films and Applications to the Industry in China
Invited	B-8-I25-007	13:50	14:10	Richard	BALMER	Element Six	Synthesis and Characterisation of Boron Delta-Doped Diamond Devices for
	B-8-O25-008	14:10	14:25	Yuuki	YOKOYAMA	Waseda University	Electric property of diamond surface covered with AlN grown by MBE
	B-8-O25-009	14:25	14:40	Akira	DAICHO	Waseda University	Atomic layer deposition of Al ₂ O ₃ for passivating hydrogen-terminated diamond
Coffee break 15:00 15:15							
Device: Chair (S.Kozumi, NIMS)							
Invited	B-8-I25-010	15:15	15:35	Tsuyoshi	FUNAKI	Osaka University	Power Switching Characteristics of a Diamond Schottky Barrier Diode
	B-8-O25-011	15:35	15:50	Arie	NAWAWI	Nanyang Technological University	Device fabrication and modeling of high temperature, high power diamond vertical Schottky barrier diode
	B-8-O25-012	15:50	16:05	Tomoya	NARUO	Waseda University	Diamond MOSFET with O-terminated thin boron doped channel
	B-8-O25-013	16:05	16:25	Bohuslav	REZEK	Institute of Physics ASCR, v. v. i.	Spatially-resolved photovoltage in B-doped diamond Schottky diode
Device: Chair (H.Umezawa, AIST)							
Invited	B-8-I25-014	16:30	16:50	Tokuyuki	TERAJI	National Institute for Materials Science	p-type diamond Schottky diodes -current transport mechanisms and
	B-8-O25-015	16:50	17:05	Shaoheng	CHENG	1-1 Namiki, Tsukuba, Ibaraki 305-0044, Japan	High dielectric constant oxide on diamond for high power devices
	B-8-O25-016	17:05	17:20	Yasuo	KOIDE	National Institute for Materials Science (NIMS)	Electrical property of high-k insulator/p-diamond diodes for electric field controlling
Invited	B-8-I25-017	17:20	17:35	Etienne	GHEERAERT	Univ. Joseph Fourier / CNRS	Diamond electronic devices
Session Party 18:00							

Poster Session

24 Mon	Presentation No.	Start	End	First name	FAMILY NAME	Affiliation	Abstract title
Growth							
	B-8-P24-001	18:00	20:00	Yoshiaki	MOKUNO	National Institute of Advanced Industrial Science and Technology	Observation of Ion Implantation Lift-off Surface of Single Crystal Diamond
	B-8-P24-002	18:00	20:00	Hong-Xing	WANG	Diamond CVD systems department	Application of microwave plasma chemical vapor deposition system to single crystal diamond growth
	B-8-P24-003	18:00	20:00	Ryota	SATAKE	Hokkaido University	Growth and evaluation of hexagonal boron nitride using metal solvent in radio-frequency heating furnace
	B-8-P24-004	18:00	20:00	Hitoshi	SUMIYA	Sumitomo Electric Industries, Ltd.	HPHT synthesis of defect free large type-IIa diamond
	B-8-P24-005	18:00	20:00	Vitaly	BORMASHOV	Technological Institute for Superhard and Novel Carbon Materials	High Quality Low-doped Semiconductor Synthetic Single-Crystal Diamonds
SAW&MEMS							
	B-8-P24-006	18:00	20:00	Satoshi	FUJII	Chiba University	Study on a one-port SAW resonator using a single crystal diamond
	B-8-P24-007	18:00	20:00	Emmanuel	SCORSONE	Research scientist	Diamond Micro Electrode Array (MEA) as electrophysiology platforms with high performance and stability
NCD & films							
	B-8-P24-008	18:00	20:00	Shinya	OHMAGARI	Kyushu University	Photodetection properties of ultrananocrystalline diamond/hydrogenated amorphous carbon composite films
	B-8-P24-009	18:00	20:00	Shinichi	SHIKATA	AIST	Thermal conductivity of nano-crystalline diamond
	B-8-P24-010	18:00	20:00	Sausan	AL-RIYAMI	Interdisciplinary Graduate School of Engineering Science, Kyushu	Heterojunction Diodes Comprised of p-Type Si/n-Type UNCD/a-CH Composite Film Prepared by Pulsed Laser Deposition.
	B-8-P24-011	18:00	20:00	Yonhua	TZENG	National Cheng Kung University	UNCD encapsulated NDD micro-heater for chemical and bio-compatible applications
	B-8-P24-012	18:00	20:00	Jaeho	KIM	National Institute of Advanced Industrial Science and Technology	Atmospheric pressure synthesis of nanocrystalline diamond films by a microwave plasma jet
	B-8-P24-013	18:00	20:00	Mai	TAKASHIMA	Tokyo Institute of Technology	Hydrogen content and mechanical characteristics of DLC films
QE & Isotope							
	B-8-P24-014	18:00	20:00	Cyrril	POPOV	University of Kassel	Investigation of NV Centers in Diamond Nanopillars
	B-8-P24-015	18:00	20:00	Kohei	OHASHI	Keio University	Nitrogen-Vacancy Centers Introduced during CVD Growth in Isotopically Controlled 12C Diamond Films
	B-8-P24-016	18:00	20:00	Syuhei	TOMIZAWA	Keio University	Effective and Position-controlled Doping of Nitrogen-Vacancy Centers Using Chemical Vapor Deposition on Etched Substrate
	B-8-P24-017	18:00	20:00	Hideyuki	WATANABE	National Institute of Advanced Industrial Science and Technology	Raman scattering from optical phonons in isotopic 12C13C diamond superlattices
	B-8-P24-018	18:00	20:00	tokuyuki	TERAJI	National Institute for Materials Science	Isotopically-enriched 12C diamond films
	B-8-P24-019	18:00	20:00	Kazuhiro	IKEDA	Sumitomo Electric Industries	Isotope enrichment of high-purity HPHT diamond
Defects							
	B-8-P24-020	18:00	20:00	Yasuji	MURAMATSU	University of Hyogo	Detection of Defects/Dangling-Bonds in Diamond by the Synchrotron Radiation Excited X-Ray Emission Spectroscopy
	B-8-P24-021	18:00	20:00	Yukako	KATO	National Institute of Advanced Industrial Science and Technology	Effect of substrate pre-treatment for the single-crystal CVD diamond growth
	B-8-P24-023	18:00	20:00	Wataru	KADA	Japan Atomic Energy Agency	Transient Ion-Beam-Induced Current (TIBIC) Analysis of the Irradiation Effects in Transmission CVD Diamond Film Detectors
Devices							
	B-8-P24-024	18:00	20:00	Hitoshi	UMEZAWA	National Institute of Advanced Industrial Science and Technology	High current operation of diamond vertical-SBDs at 250oC
	B-8-P24-025	18:00	20:00	Nobuteru	TSUBOUCHI	National Institute of Advanced Industrial Science and Technology	Structural and electrical properties of diamond with high-dose ion implantation at elevated temperatures: dependence of ion species
	B-8-P24-026	18:00	20:00	Kiran Kuma	KOVI	Uppsala University	Surface Passivation of SC-CVD Diamond by High-k Dielectrics.
	B-8-P24-027	18:00	20:00	Masataka	IMURA	National Institute for Materials Science (NIMS)	Al ₂ O ₃ /Diamond Field Effect Transistors using Surface p-Channel Prepared by Thermal Treatment with Hydrogen and Ammonia Atmosphere
	B-8-P24-028	18:00	20:00	Etienne	GHEERAERT	Universite Joseph Fourier	Hole and electronic conductivity in compensated n- and p-type doped diamond
	B-8-P24-029	18:00	20:00	Satoshi	KOIZUMI	National Institute for Materials Science (NIMS)	SIMS analysis of delta-doped diamond structures
	B-8-P24-030	18:00	20:00	Saman	MAJDI	Division for Electricity, Uppsala University	Low Temperature Hole Transport in Single Crystal Synthetic Diamond