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GOYANG
Convention & Visitors Bureau



CCMR 2019 Program

Collaborative Conference on Materials Research

03 – 07 June 2019

KINTEX

Goyang/Gyeonggi, South Korea



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Springer



CCMR 2019

3 - 7 June 2019

KINTEX, Goyang Gyeonggi / Seoul, South Korea

Collaborative Conference on Materials Research (CCMR) 2019

3 - 7 June 2019, Goyang/Gyeonggi, South Korea

Collaborative Conference on Materials Research (CCMR) 2019

: This collaborative conference series is established to enable technological developments in various fields of materials and to further the goal of unifying materials research in engineering, physics, biology, materials science, as well as chemistry and neuroscience. CCMR 2019, as the ninth conference in this series, offers materials researchers the opportunity to discuss and exchange information with the frontiers in their fields and network with scientists from various other fields for potential interdisciplinary collaborations.

Conference Organizer:

Jihoon Lee, Kwangwoon University, Seoul, South Korea

Honorary Conference Chairs:

Prof. Gregory J. Salamo, University of Arkansas, USA

CCMR 2019 COMMITTEES & SCIENTIFIC TEAM



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CCMR 2019 COMMITTEES & SCIENTIFIC TEAM

Host by



**Collaborative Conference on Materials Research
Kwangwoon University**

Sponsored by



Welcome to the CCMR 2019

It is our great pleasure to have you all for the Collaborative Conference on Materials Research 2019 (CCMR 2019) at the KINTEX, Goyang/Gyeonggi, South Korea during the 03th - 07th June 2019.

On behalf of the Organizing Committees of CCMR 2019, I would like to express my sincere welcome to all the participants of this international meeting on diverse materials research fields. Especially, I am very grateful to those distinguished invited, oral and poster speakers for joining from over 25 countries including Australia, Brazil, Canada, China, Colombia, France, Germany, Israel, Japan, Malaysia, Nigeria, Pakistan, Poland, Romania, Russia, Singapore, Spain, Sweden, Switzerland, Taiwan, Thailand, Turkey, United Kingdom, United State of America and South Korea.

This international conference of ‘CCMR’ series was first organized in 2011 and has been annually hosted by the CCMR and Kwangwoon University. The aim of this conference is collaboratively and internationally to discuss the worldwide state-of-the-art of Materials science and technologies. For this purpose, over 200 distinguished experts on the materials research are joined from all over the world. The ‘CCMR’ has grown up to be a globally renowned meeting on the materials research in both name and reality judging from the numbers of speakers and attending countries as well as the quality of the presented talks and papers.

Welcome to the CCMR 2019

It is an invaluable chance to share and exchange opinions and discuss future directions and strategies for further development of materials science and technology together with the internationally renowned experts. We believe that this international meeting of ‘CCMR 2019’ will be a very precious opportunity in sharing and exchanging the recent developments on the material research as well as discussing the future trends. We are also confident that this meeting will be most rewarding and will be a good success.

Lastly, I would like to extend my sincere regards to the internationally renowned speakers and participants of this collaborative meeting and all the related personals for preparing this momentous meeting. Especially, I would like to express our deep appreciation to Prof. Jihoon Lee of Kwangwoon University for his continuing volunteer-ship, endeavors and sacrifices for organizing this wonderful international meeting.

Once again, thank you all for your supports and dedications!

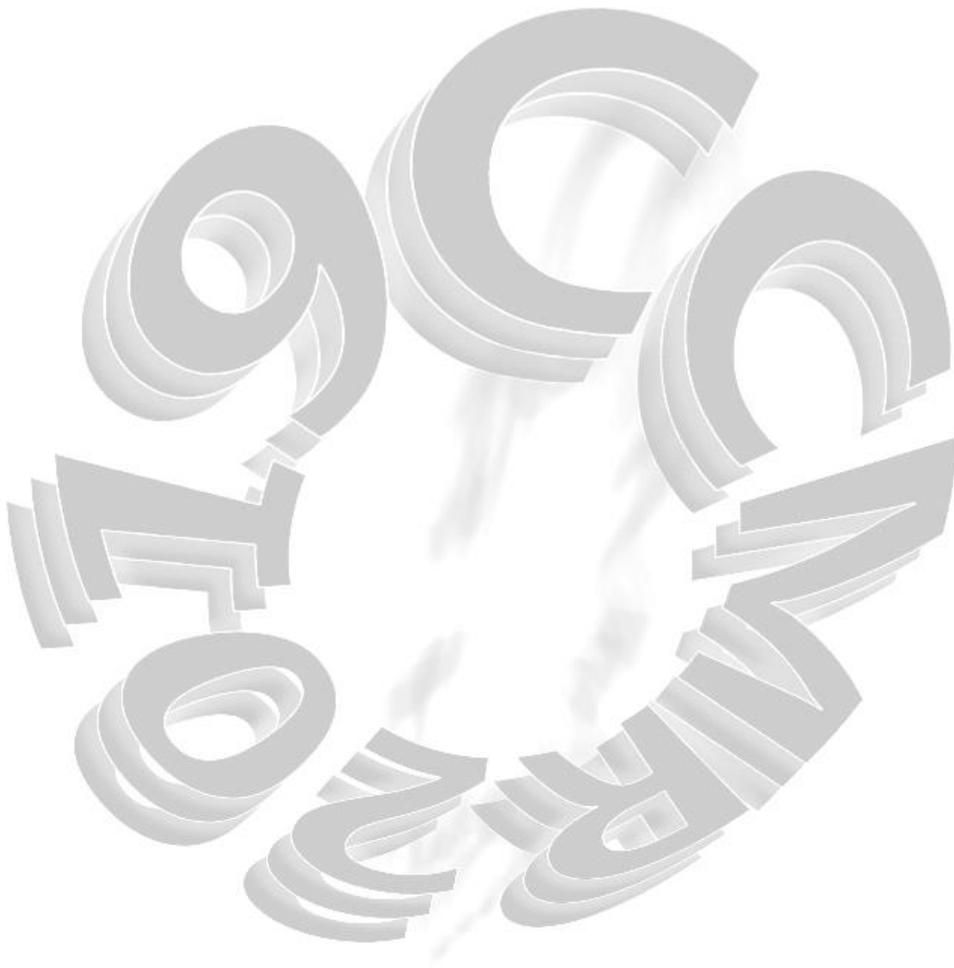
Prof. Gregory J. Salamo

Honorary Conference Chair of the CCMR 2019
University of Arkansas, Fayetteville, AR, USA

CCMR 2019 Conference Schedule

3 - 6 June	<p>On-site Registration in the Venue, 9:00 - 5:00 PM (Carried on during the conference, Monday at 8.00 am)</p>
3 June Monday	<p>Full day oral presentations, 9.30 - 5:00PM Poster Session from 5:30PM Conference Reception from 6:00PM - (Buffet & wine with live music show)</p>
4 June Tuesday	<p>Full day oral presentations, 9.30 - 5:00PM Evening Activity, from 6:00 - 09.00PM (Depending on weather, subject to cancelation)</p>
5 June Wednesday	<p>Full day oral presentations, 9.30 - 5:00PM Conference Banquet from 6:00PM – Welcoming & congratulatory address (Buffet & wine with live music shows)</p>
5 June Thursday	<p>Full day oral presentations, 9.30 - 12:30AM</p>
7 June Friday	<p>All Day Tour, 8.00 - 6:00PM (Transportation, tickets & lunch covered)</p>

CCMR 2019 Session Program



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DAY 1 (Monday 03 June)

Room 208-A			
Time	Page	Speaker	Talk Title
Nanostructures and Nanomaterials		Chair: Aderemi Oki	
09:30-10:00		Karina Morgenstern	Electronically-driven surface damage investigated on the local scale
10:00-10:30		Martin Foldyna	Silicon nanowire radial junction solar cells: from early ideas to large area devices
10:30-11:00	<i>Session Break</i>		
Nanostructures and Nanomaterials		Karina Morgenstern	
11:00-11:30		Fong Wen Mei	Bioinspired strategies for nanomaterial synthesis
11:30-12:00		Aderemi Oki	Plasmonic Cation deficient copper (1) sulfide nanocomposite materials as Photo-thermal agent for Cancer Therapy
12:00-12:30		Gaoling Yang	Band gap engineering improves the efficiency of double quantum dot upconversion nanocrystals
12:30-14:00	<i>Lunch Break</i>		
Biomaterials and Applications		Chair: Jean-Pierre Leburton	
14:00-14:30		Qiaoqin Yang	Synthesis and Characterization of Biocompatible Hard Coatings on Metallic Implant Materials
14:30-15:00		Hyo-Jick Choi	Infection control measures against airborne viruses
15:00-15:30		David Kisailus	Biological Crystallization of Ultrahard Teeth and Translation to Multi-Functional Materials
Biomaterials and Applications		Chair: Qiaoqin Yang	
15:30-16:00		Jean-Pierre Leburton	Nanoelectronic membranes for DNA sensing
16:00-16:30		Su-il In	Smart Materials for CO ₂ Utilization: Controllable Transition from C1 to C2 Products
16:30-16:45		Mei-Ling Zheng	Water Soluble Two-photon Initiators and Bioinspired Applications
17:30-18:00	<i>Poster Session (Grand Ballroom in KINTEX, 3F)</i>		
18:00- Night	<i>Conference Reception (Grand Ballroom in KINTEX, 3F)</i>		

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DAY 1 (Monday 03 June)

Room 208-B			
Time	Page	Speaker	Talk Title
Advanced Alloy Materials			Chair: Richeng Yu
09:30-10:00		Konstantin Borodianskiy	Effect of nanoparticles additives in Al-based alloys
10:00-10:30		Nicolas Argibay	DLC from Thin Air: In Situ Formation of Diamond-like Carbon on Ultralow Wear Metals
10:30-11:00	<i>Session Break</i>		
Oxide Materials			Chair: Konstantin Borodianskiy
11:00-11:30		Tohru Higuchi	Structural and Electrical Properties of p-type TiO ₂ Thin Film Realized by Carrier and Lattice Controls
11:30-12:00		Richeng Yu	Magnetic Anisotropy of La _{2/3} Sr _{1/3} MnO ₃ /LaCoO _{3-d} Heterostructure
12:00-12:30		Byung-Nam Kim	Spark Plasma Sintering of Transparent Non-Cubic Oxide Ceramics
12:30-14:00	<i>Lunch Break</i>		
Magnetism and Magnetic Materials			Chair: Michael Chandross
14:00-14:30		Yasuhiro Sugawara	Separation of Atomic-Scale Spin Contrast on NiO(001) by Magnetic Resonance Force Microscopy (MRFM)
14:30-15:00		Yu-Hui Tang	Noncollinear Spin Torque Effect in Magnetic Heterojunctions: Combined First-Principles Calculation and TB-NEGF Method
15:00-15:30	<i>Session Break</i>		
Nanostructures & Nanomaterials			Chair: Yasuhiro Sugawara
15:30-16:00		Michael Chandross	A Thermokinetic Model of Friction in MoS ₂
16:00-16:30		Andreas K. Huettel	Quantum transport measurements of MoS ₂ and WS ₂ nanotubes
16:30-17:00		Puran Pandey	Synthesis of self-assembled Au, Ag, Pt monometallic and multi-metallic nanostructures on sapphire (0001): Morphological and plasmonic properties analysis
17:30-18:00	<i>Poster Session (Grand Ballroom in KINTEX, 3F)</i>		
18:00- Night	<i>Conference Reception (Grand Ballroom in KINTEX, 3F)</i>		

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DAY 1 (Monday 03 June)

Room 209-A			
Time	Page	Speaker	Talk Title
Electronic Materials & Applications		Chair: Eisuke Tokumitsu	
09:30-10:00		Xavier Castel	Transparent and Conducting Films for Microwave Applications: Towards Transparent Antennas with High Performance
10:00-10:30		Tetsuya Yamamoto	Materials Design to Achieve Unique Advanced Functional Oxide Films
10:30-11:00	<i>Session Break</i>		
Electronic Materials & Applications		Chair: Xavier Castel	
11:00-11:30		Yong Soo Cho	Stress-Driven Optical Modulations in Flexible Semiconducting Thin Films
11:30-12:00		Eisuke Tokumitsu	Conductive-Oxide-Channel Thin Film Transistor Realized by Ferroelectric Gate Insulator
12:00-12:30		Chen Ge	Electrolyte-gated synaptic transistors based on functional oxide epitaxial films
12:30-14:00	<i>Lunch Break</i>		
Electronic Materials & Applications		Chair: Arend van der Zande	
14:00-14:30		Atsushi Tsurumaki-Fukuchi	Fast and uniform interface reactions of tantalum oxide and their applications into memory devices
14:30-15:00		Gang Liu	Flexible and Stretchable Resistive Switching Materials and Memory Devices
15:00-15:30	<i>Session Break</i>		
Graphene and Applications		Atsushi Tsurumaki-Fukuchi	
15:30-16:00		Arend van der Zande	Controlled Interfaces and Mechanical Deformation 2D material atomic membranes
16:00-16:30		Yongyi Zhang	The controllable assembly, properties modulation and functional applications of carbon nanotube/graphene fibers
16:30-17:00		S.-R. Eric Yang	Solitons in graphene nanoribbon and polyacetylene: similarities and differences
17:30-18:00	<i>Poster Session (Grand Ballroom in KINTEX, 3F)</i>		
18:00- Night	<i>Conference Reception (Grand Ballroom in KINTEX, 3F)</i>		

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DAY 1 (Monday 03 June)

Room 209-B			
Time	Page	Speaker	Talk Title
Materials Synthesis & Characterizations		Chair: Noelle Gogneau	
09:30-10:00		Humberto Rodriguez Gutierrez	Two-dimensional Multi-junction Heterostructures Based on Transition Metal Dichalcogenides
10:00-10:30		Sang Hun Lee	Flattened acoustic Luneburg Lens using an orifice type metamaterial
10:30-11:00	<i>Session Break</i>		
Materials Synthesis & Theory		Chair: Humberto Rodriguez Gutierrez	
11:00-11:30		Noelle Gogneau	Piezoelectric properties of GaN and Ga(In)N/GaN NW heterostructures for piezo-generator and piezo-sensor applications
11:30-12:00		Atsutaka Maeda	Synthesis and physical properties of FeSe _{1-x} Te _x and FeSe _{1-y} S _y epitaxial films: What determines superconductivity T _c ?
12:00-12:30		Weijun Fan	Band Structure and Optical Property of Uniaxial Tensile Strained Ge and Ge Quantum Well
12:30-14:00	<i>Lunch Break</i>		
17:30-18:00	<i>Poster Session (Grand Ballroom in KINTEX, 3F)</i>		
18:00- Night	<i>Conference Reception (Grand Ballroom in KINTEX, 3F)</i>		

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DAY 2 (Tuesday 04 June)

Room 208-A			
Time	Page	Speaker	Talk Title
Light Emitting Materials		Chair: Yasufumi Fujiwara	
09:30-10:00		Xian A. Cao	Quenching Effects in Blue Fluorescent Host-Dopant Emitter Systems
10:00-10:30		Tae Geun Kim	Highly reflective Ni:AlN/Al Ohmic electrodes for AlGaN-based flip-chip UV-C LEDs
10:30-10:45		Chan Young Park	Enhanced light extraction from OLEDs by high refractive index nanoparticle scattering layer
10:45-11:00	<i>Session Break</i>		
Light Emitting Materials		Chair: Xian A. Cao	
11:00-11:30		Yasufumi Fujiwara	Development of Semiconductors Intra-center Photonics
11:30-12:00		Junqiao Ding	Solution-processed white organic light-emitting diodes with high power efficiency
12:00-12:30		Hisao Ishii	High-Sensitivity UV Photoemission Spectroscopy of Organic Films, Interfaces, and Devices: As a Tool to Probe Traps, Carriers, and Excited States
12:30-14:00	<i>Lunch Break</i>		
Optoelectronics and Applications		Chair: Masao Sakuraba	
14:00-14:30		Judy Wu	High-performance plasmonic nanostructures/graphene van der Waals Heterojunction Optoelectronics
14:30-15:00		Masahiko Kondow	CirD photonic crystal laser with high mesa waveguide for light output
15:00-15:30		Alfred Tok	Thermal Management in Electrochromic Smart Windows for Building Energy Efficiency
Electronic Materials & Applications		Chair: Judy Wu	
15:30-16:00		Seungwoo Han	Fabrication and application of flexible thermoelectric devices
16:00-16:30		Masao Sakuraba	Low-Energy Plasma Enhanced Epitaxy and In-Situ Doping for Group-IV Semiconductor Device Fabrication
16:30-17:00		Kyeong-Sik Min	Memristive Hierarchical Temporal Memory for Bio-Inspired Cognitive Computing
17:30-20:30	<i>Walk around & Beer Chicken (Gather Kintex lobby 1F)</i>		

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DAY 2 (Tuesday 04 June)

Room 208-B			
Time	Page	Speaker	Talk Title
2D Materials		Chair: Grzegorz Hader	
09:30-10:00		Dan Kaplan	Materials Science in Two Dimensions
10:00-10:30		Eui-Hyeok Yang	1D and 2D Materials, Flexible Electrodes and Tunable Surfaces
10:30-10:45		Jing Liu	Thermal conductivity of uranium nitride thermoelectric thin films using the 3ω method
10:45-11:00	<i>Session Break</i>		
2D Materials		Chair: Dan Kaplan	
11:00-11:30		Grzegorz Hader	Computational Study of Strained Platinum Catalysts for 2D Nanosheet Growth
11:30-12:00		Aaron Stern	A New Class of Pyrophoric Foam Materials: Synthesis and Characterization
12:00-12:30		Taiichi Otsuji	Terahertz Current-Driven Lasing and Amplification in Graphene-based vdW Heterostructures
12:30-14:00	<i>Lunch Break</i>		
Nanostructures & Nanomaterials		Chair: Franck Bassani	
14:00-14:30		Jerzy P. Lukaszewicz	Electroexfoliation Versus Wet Chemistry Exfoliations as a Preliminary Stage for 3D Functionalization of Graphene Flakes
14:30-15:00		Herbert Pfnur	Quasi-one dimensional arrays of atomic wires: a new route to nano-optoelectronics?
Materials Synthesis & Characterizations		Chair: Jerzy P. Lukaszewicz	
15:00-15:30		Yohei Otoki	Recent GaN material topics for GaN on GaN Power device
15:30-16:00		Franck Bassani	IV-IV heterostructure nanowires : advances in growth, characterization and applications
16:00-16:30		Qizhen Li	Recrystallization activation energies in ultrafine grained magnesium during annealing
16:30-17:00		Satoshi Uda	Partitioning of Mg into Li Site and Nb Site in LiNbO ₃ Crystal during Growth from the Melt
17:30-20:30	<i>Walk around & Beer Chicken (Gather Kintex lobby 1F)</i>		

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DAY 2 (Tuesday 04 June)

Room 209-A			
Time	Page	Speaker	Talk Title
Oxide Materials		Chair: Diing Shenp ANG	
09:30-10:00		Takashi Uchida	Fabrication of VO ₂ Thin films by MOD and Their Applications to Bolometer detectors
10:00-10:30		Ana Cremades	Low Dimensional Structures of SnO ₂ and TiO ₂ Materials: Synthesis, Properties and Applications
10:30-11:00	<i>Session Break</i>		
Wide Bandgap Oxide Nano-Materials		Chair: Ana Cremades	
11:00-11:30		Diing Shenp ANG	An Ultra-Low-Power Optical Sensing Technology based on Negative Photoconductivity in Soft-Breakdown Wide Bandgap Oxides
11:30-12:00		Ruben D Costa	Superior hybrid light-emitting diodes and solar cells using organometallo-metal oxide nanoparticles
12:00-12:30		Bianchi Mendez	Gallium oxide micro- and nanomaterials: Synthesis and optical properties
12:30-14:00	<i>Lunch Break</i>		
Oxide Materials		Chair: Rana Biswas	
14:00-14:30		Daesung Park	Defect Engineering on Functionalization of Oxide Dielectrics and Their Interfaces
14:30-15:00		Hiroaki Matsui	Infrared Surface Plasmons Based on Oxide Semiconductors for Biochemical Sensing Platforms
15:00-15:30	<i>Session Break</i>		
Nanostructures & Nanomaterials		Chair: Daesung Park	
15:30-16:00		Rana Biswas	Novel optical and electronic phenomena in nanoplasmonic arrays
16:00-16:30		Alexander M. Demin	Synthesis of nanocomposites based on Fe ₃ O ₄ magnetic nanoparticles as visualizing and magnetically separable materials for biology and medicine
16:30-17:00		Kah Hon Leong	Alteration of BiPO ₄ nanomaterial with Ag ₂ S for sustainable photocatalysis
17:00-17:15		Yi Chu	Growth mechanism of SmB ₆ nanowires synthesized by chemical vapor deposition: catalyst-assisted and catalyst-free
17:30-20:30	<i>Walk around & Beer Chicken (Gather Kintex lobby 1F)</i>		

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DAY 2 (Tuesday 04 June)

Room 209-B			
Time	Page	Speaker	Talk Title
Photovoltaics Photocatalysis Materials			Chair: Katsuaki Tanabe
09:30-10:00		Hideo Ohkita	Metal Halide-Based Perovskites for Highly Efficient Photovoltaics
10:00-10:30		I-Chun Cheng	Surface Diffusive Dielectric Barrier Discharge Treated MAPbI ₃ Perovskite Thin Films for Energy Harvesting Devices
10:30-11:00	<i>Session Break</i>		
Photovoltaics Photocatalysis Materials			Chair: I-Chun Cheng
11:00-11:30		Katsuaki Tanabe	Wafer-Bonded Solar Cells
11:30-12:00		Tae-Woong Kim	Microstructural analyses of organometal halide perovskite for highly efficient solar cell application
12:00-12:30		Fang-Chung Chen	Asymmetric thin-plate perovskite single crystals for solar energy applications
12:30-14:00	<i>Lunch Break</i>		
Magnetism and Magnetic Materials			Chair: Meng Nan Chong
14:00-14:30		Perov Nikolai Sergeevich	Simulation of remagnetization by current in soft magnetic wires
14:30-15:00		Iriya Muneta	Ferromagnetic tunnel devices with two-dimensional layered material MoS ₂
15:00-15:30	<i>Session Break</i>		
Photovoltaics Photocatalysis Materials			Chair: Perov Nikolai Sergeevic
15:30-16:00		Akira Ishibashi	Waveguides with Spatial Asymmetry for Concentrator Solar-Cells
16:00-16:30		Yutaka Ohno	Impact of asymmetric grain boundaries on conversion efficiency in Si solar cells
16:30-17:00		Meng Nan Chong	Modulation and Characterization of Multi-Electric Field in Heterojunction Photoanode Structures for Enhanced Separation of Photogenerated Charge Carriers
17:00-17:15		Umar Ibrahim Gaya	Nanoscale Eosin Y-sensitized Ag-TiO ₂ for optimized photocatalytic degradation of aqueous caffeine
17:30-20:30	<i>Walk around & Beer Chicken (Gather Kintex lobby 1F)</i>		

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DAY 2 (Tuesday 04 June)

Room 210-A			
Time	Page	Speaker	Talk Title
Sensors and Applications		Chair: Hsiao-Wen Zan	
09:30-10:00		Seung Ki Moon	Multidisciplinary Design Optimization for 3D Printed Sensors and Operating Process Parameters
10:00-10:30		Liyuan Liu	Terahertz detection and imaging with silicon
10:30-11:00	<i>Session Break</i>		
Sensors and Applications		Chair: Seung Ki Moon	
11:00-11:30		Sangho Bok	Plasmonic Gratings for Applications in Biosensors
11:30-12:00		Hsiao-Wen Zan	Portable Sensor System for Noninvasively Monitoring Blood Urea Nitrogen Through Saliva and Breath
12:00-12:30		Huolin Huang	Improved Wide-bandgap Gallium Nitride Hall Sensors for High Temperature Applications
12:30-14:00	<i>Lunch Break</i>		
Polymers and Applications		Chair: Rolf Lortz	
14:00-14:30		Maenghyo Cho	Multiscale analysis and design of deforming photo-responsive polymer
14:30-15:00		Xiang Zheng Kong	Functional Polyurea Materials: Easy Synthesis, Basic Properties and Versatile Applications
15:00-15:15		Maria-Cristina Popescu	The influence of bio-based nanocomposite materials coated seeds on the plant development
15:15-15:30	<i>Session Break</i>		
Smart Materials and Applications		Chair: Xiang Zheng Kong	
15:30-16:00		Yen-Ho Chu	Reaction-Based Smart Ionic Liquids
16:00-16:30		Rolf Lortz	Fingerprint of chiral Majorana modes in resonant Andreev reflection at the edge of a quantum anomalous Hall insulator / superconductor heterostructure
16:30-17:00		Zhongwu Zhang	Nanoscale precipitation-Strengthening in single and dual phase steels
17:30-20:30	<i>Walk around & Beer Chicken (Gather Kintex lobby 1F)</i>		

Collaborative Conference on Materials Research (CCMR) 2019

03 – 07 June 2019

KINTEX, Goyang/Gyeonggi, South Korea

DAY 3 (Wednesday 05 June)

Room 208-A			
Time	Page	Speaker	Talk Title
Micro and Nanoscale Microscopy Characterization Techniques		Chair: Eugenia Eftimie Totu	
09:30-10:00		George A. Stanciu	Near field and far field laser microscopy used for nanoscale materials investigations
10:00-10:30		Toru Tomimatsu	A Study of the Incompressible Strip in Quantum Hall System by Scanning Gate Microscopy
10:30-11:00	<i>Session Break</i>		
Micro and Nanoscale Microscopy Characterization Techniques		Chair: George A. Stanciu	
11:00-11:30		Radu Hristu	Polarization-resolved second harmonic generation microscopy for the characterization of structural defects in silicon carbide
11:30-12:00		Huailiang Xu	Remote and rapid fabrication of functional material surfaces
12:00-12:30		Eugenia Eftimie Totu	Microscopic investigations of structural and morphological properties of hybrid nanocomposites with applications in 3D printed medical devices
12:30-14:00	<i>Lunch Break</i>		
Biomaterials and Applications		Chair: Ghazanfar Abbas	
14:00-14:30		Kohei Soga	Biophotonics with cm Level Transparency by the Use of Near Infrared Light
14:30-15:00		Yan Ming	Selective laser melting under the Ar-N ₂ reactive atmosphere: A convenient and efficient approach to fabricate ultrahigh strength commercially pure titanium without sacrificing ductility
15:00-15:30	<i>Session Break</i>		
Energy Materials		Chair: Kohei Soga	
15:30-16:00		Jae-Kwang Kim	Polymers for Energy Storage System
16:00-16:30		Ghazanfar Abbas	Electrochemical Investigation of Iron doped Nano-Structured Cathode for SOFC: Synthesized via Sol-gel Route
16:30-17:00		Eunsang Kwon	Structure and Applications of Lithium-Cation Endohedral [C60] Fullerene
17:00-14:15		Yijie Xu	Tuning spinel cobalt nickel sulfides synthesized via Continuous Hydrothermal Flow Synthesis as bifunctional air catalysts for Zinc-air batteries
17:30- Night	<i>Conference Banquet (Grand Ballroom in KINTEX, 3F)</i>		

Collaborative Conference on Materials Research (CCMR) 2019

03 – 07 June 2019

KINTEX, Goyang/Gyeonggi, South Korea

DAY 3 (Wednesday 05 June)

Room 208-B			
Time	Page	Speaker	Talk Title
Nanostructures and Nanomaterials			Chair: Ming-Yu Li
09:30-10:00		Cengiz Kaya	Processing and Properties of New Generation Radiation Shielding Nano Composites
10:00-10:30		Weigang Ma	Thermophysical Property Characterization of Individual Nanomaterials
10:30-11:00	<i>Session Break</i>		
Plasmonics and Applications			Chair: Cengiz Kaya
11:00-11:30		Ming-Yu Li	Broadband High Sensitivity ZnO Colloidal Quantum Dots / Self-assembled Au Nano-antennas Heterostructures Photodetectors
11:30-12:00		Chun-Hway Hsueh	Nanoimprint of Au-based Thin Film Metallic Glasses for Surface-enhanced Raman Scattering Applications
12:00-12:30		Sundar Kunwar	Dynamic plasmonic response of fully alloyed AgPt and pure Pt nanoparticles fabricated with the Ag/Pt bilayer
12:30-14:00	<i>Lunch Break</i>		
Materials Synthesis & Characterizations			Chair: Gang Wu
14:00-14:30		Jiuzhou Zhao	Precipitation of droplets/particles and formation of in situ particulate composite
14:30-15:00		Zhaoqing Li	Additive manufacturing materials research
15:00-15:15		Kangwei Zhu	The TEM Studies of Tungsten Irradiated by Helium
15:15-15:30	<i>Session Break</i>		
Material Theory and Principles			Chair: Jiuzhou Zhao
15:30-16:00		Xiaoping Yang	Topological evolution of electronic bands in correlated transition-metal materials
16:00-16:30		Gang Wu	Two-dimensional single-layer π -conjugated nickel bis(dithiolene) complex: a good-electron-poor-phonon thermoelectric material
16:30-17:00		Yong Yang	γ -Ta ₂ O ₅ : A New Phase of Ta ₂ O ₅ Predicted from First-principles
17:30- Night	<i>Conference Banquet (Grand Ballroom in KINTEX, 3F)</i>		

Collaborative Conference on Materials Research (CCMR) 2019

03 – 07 June 2019

KINTEX, Goyang/Gyeonggi, South Korea

DAY 3 (Wednesday 05 June)

Room 209-A			
Time	Page	Speaker	Talk Title
Materials Synthesis & Characterizations		Chair: Zujin Zhao	
09:30-10:00		Hani E. Elsayed-Ali	Ultrafast electron diffraction of lattice dynamics of femtosecond laser-excited bismuth
10:00-10:30		Shengqiang Ma	Interfacial structural evolution of directional solidified alloys in liquid zinc
10:30-11:00	<i>Session Break</i>		
Optoelectronic Material		Chair: Hani E. Elsayed-Ali	
11:00-11:30		Zujin Zhao	Aggregation-Induced Delayed Fluorescence
11:30-12:00		Guohua Xie	Some interdisciplinary research on organic optoelectronic materials and devices
12:00-12:30		Kok Wai Cheah	Enhanced performance of blended OLED through TADF process
12:30-14:00	<i>Lunch Break</i>		
Materials Synthesis & Characterizations		Chair: David Maestre Varea	
14:00-14:30		Youn-Sang Bae	Metal-organic Frameworks for Industrially Important Gas Separations
14:30-15:00		Kezhao Liu	Recent Advance in Preparation and Properties of Nitride layer on Metal Uranium Surface
15:00-15:30		Masaharu Nakayama	Single-Ion Catalyst Isolated in the Interlayer Space of Buserite-Type Layered MnO ₂ for Electrochemical Reactions
Oxide Materials		Chair: Kezhao Liu	
15:30-16:00		David Maestre Varea	Low dimensional structures of NiO and Sn doped NiO
16:00-16:30		Yinlian Zhu	Atomic Mappings of Novel Domain Configurations in Ferroelectric Thin films
16:30-17:00		Hiroaki Nishikawa	Flexible epitaxial thin films of perovskite type oxides: The fabrication processes and the electronic properties
17:30- Night	<i>Conference Banquet (Grand Ballroom in KINTEX, 3F)</i>		

Collaborative Conference on Materials Research (CCMR) 2019

03 – 07 June 2019

KINTEX, Goyang/Gyeonggi, South Korea

DAY 3 (Wednesday 05 June)

Room 209-B			
Time	Page	Speaker	Talk Title
Polymers and Applications		Chair: Carmen-Mihaela Popescu	
09:30-10:00		Peng Chen	Effect of SLS processing on the microstructure, crystalline and thermal properties of polyetheretherketone (PEEK)
10:00-10:30		Toshiki Aoki	In-situ Synthesis and Gas Permeation of Supramolecular Polymer / Polymer Composite Membranes
10:30-10:45		Xubao Jiang	Preparation of Uniform Polyurea Microspheres and Their Applications
10:45-11:00	<i>Session Break</i>		
Polymers and Applications		Chair: Toshiki Aoki	
11:00-11:30		Masayuki Okoshi	Fabrication of Superhydrophobic Silicone Rubber Operating in Water by 193-nm ArF Excimer Laser-Induced Photodissociation
11:30-12:00		Sarawut Rimdusit	Bio-Based Shape Memory Polymers Fabricated from Vanillin-Furfurylamine-Containing Benzoxazine/Epoxydized Castor Oil Copolymers
12:00-12:30		Carmen-Mihaela Popescu	Hydrophobic nanocomposite formulations for organic based surfaces
12:30-14:00	<i>Lunch Break</i>		
Molecular Systems & Applications		Chair: Andreas Stein	
14:00-14:30		Yu-Chang Chen	A Microscopic description of Negative Capacitance in Ferroelectric Single-Molecule Junctions from First Principles Approaches
14:30-15:00		Ryoma Hayakawa	Vertical Resonant Tunneling Devices Brought about by Integration of Attractive Molecules into Current Si devices
15:00-15:30	<i>Session Break</i>		
Nanostructures & Nanomaterials		Chair: Ryoma Hayakawa	
15:30-16:00		Andreas Stein	Designing Functional Porous and Nanostructured Materials at Multiple Length Scales
16:00-16:30		Go Kawamura	Multiferroic BaTiO ₃ -CoFe ₂ O ₄ nanocomposite prepared via affordable liquid phase processes
16:30-17:00		Huimin Xie	Mechanical Characterization of Soft Substrate-Supported Thin Films Using Optical Techniques
17:30- Night	<i>Conference Banquet (Grand Ballroom in KINTEX, 3F)</i>		

Collaborative Conference on Materials Research (CCMR) 2019

03 – 07 June 2019

KINTEX, Goyang/Gyeonggi, South Korea

DAY 3 (Wednesday 05 June)

Room 210-A			
Time	Page	Speaker	Talk Title
Magnetism and Magnetic Materials		Chair: Chenglong Jia	
09:30-10:00		Clemens Ulrich	Multiferroic Thin Films: A comprehensive Neutron Diffraction Study
10:00-10:30		Shinobu Ohya	Anomalous magnetic behavior observed at ferromagnetic perovskite-oxide interfaces and its application to efficient magnetization rotation
10:30-11:00	<i>Session Break</i>		
Magnetism and Magnetic Materials		Chair: Clemens Ulrich	
11:00-11:30		In-Sang Yang	Magnons in hexagonal RMnO ₃ (R=Y, rare earths)
11:30-12:00		Chenglong Jia	Room temperature single phase multiferroic Aurivillius compound
12:00-12:30		Izumi Hase	Flat-Band in Pyrochlore Oxides: A First-Principles Study
12:30-14:00	<i>Lunch Break</i>		
Smart Materials and Applications		Chair: Katsuaki Tanabe	
14:00-14:30		Wai Kian Tan	Facile design of nanocomposites and its properties by electrostatic adsorption
14:30-15:00		Kei Noda	Anodized Metal Oxide Nanotube Arrays for Gas Phase Photocatalysis and Photoinduced High-Purity Hydrogen Production
15:00-15:30	<i>Session Break</i>		
Smart Materials and Applications		Chair: Wai Kian Tan	
15:30-16:00		Shumin Wang	Integration of Wafer-Scale III-Vs on Si Substrates
16:00-16:30		Katsuaki Tanabe	Plasmonics for Photovoltaics and Nuclear Fusion
16:30-17:00		Hongdoo Kim	Electrospun Piezocapacitive/Piezoelectric Materials for Tactile/Pressure Sensor
17:30- Night	<i>Conference Banquet (Grand Ballroom in KINTEX, 3F)</i>		

Collaborative Conference on Materials Research (CCMR) 2019

03 – 07 June 2019

KINTEX, Goyang/Gyeonggi, South Korea

DAY 4 (Thursday 06 June)

Room 208-A			
Time	Page	Speaker	Talk Title
Advanced Alloy Materials		Chair: Alexander Khmaladze	
09:30-10:00		Weili Wang	Liquid Phase Separation and Rapid Solidification of High-entropy CoCrFeNiCu _x alloys
10:00-10:30		Bo Li	Microstructure and tribological properties of Ni-based high temperature composite coatings from conventional and nanostructured powders
Biomaterials and Applications		Chair: Weili Wang	
10:30-11:00		Jingan Li	Tailoring of Cardiovascular biomaterials Surface by a series of Techniques for Better Biocompatibility
11:00-11:30		Alexander Khmaladze	Raman Spectroscopic Analysis of Animal Bones and Ivories
11:30-12:00		Yi Wang	A nanoencapsulation suspension biomimetic of milk structure for enhanced maternal and fetal absorptions of DHA to improve early brain development
12:00-12:30		Angeline Poulon	Optimization of the silanization protocols on the adhesion of resin cements to a lithium disilicate glass-ceramic: from chemistry bonding to mechanical properties
12:30-14:00	<i>Lunch Break</i>		

Collaborative Conference on Materials Research (CCMR) 2019

03 – 07 June 2019

KINTEX, Goyang/Gyeonggi, South Korea

DAY 4 (Thursday 06 June)

Room 208-B			
Time	Page	Speaker	Talk Title
Energy Materials		Chair: Byung Hoon Kim	
09:30-10:00		Masaru Aniya	A Model for the Non-Arrhenius Ionic Conductivity in Solids
10:00-10:30		Xihong Peng	Computational Study of Lithiation of Ba-Doped Type I Si/Ge Clathrates
10:30-11:00		Teng HE	Metallated Organic Hydrides for Hydrogen Storage
11:00-11:30		Gustavo Doubek	Building on diagnostic characterizations for Li-Air Devices
Smart Materials and Applications		Chair: Masaru Aniya	
11:30-12:00		Byung Hoon Kim	Electronic Textiles for Various Applications
12:00-12:30		Hong Yin	Synthesis and Applications of Boron Nitride Films
12:30-14:00	<i>Lunch Break</i>		

Collaborative Conference on Materials Research (CCMR) 2019

03 – 07 June 2019

KINTEX, Goyang/Gyeonggi, South Korea

DAY 4 (Thursday 06 June)

Room 209-A			
Time	Page	Speaker	Talk Title
Polymers and Applications		Chair: Kencihi Yamashita	
09:30-10:00		Masayuki Yamaguchi	Modification of Polar Plastics by Salt Addition
10:00-10:30		Markus Busch	High-Pressure Polymerization Technology: Recent Developments and Safety Considerations
10:30-11:00		Myunghwan Byun	Hierarchically Ordered Nanostructures on a Chemically Defined Surface via Flow-Enabled Self-Assembly
Polymers and Applications		Chair: Markus Busch	
11:00-11:30		Kencihi Yamashita	Organic Single Crystal Microcavities with Strong Light-Matter Coupling
11:30-12:00		Yasuhiro Koike	Proposal of Novel Photonics Polymers toward Ultra-High-Definition and Real-Color Display System
12:00-12:30	<i>Lunch Break</i>		

Collaborative Conference on Materials Research (CCMR) 2019

03 – 07 June 2019

KINTEX, Goyang/Gyeonggi, South Korea

DAY 4 (Thursday 06 June)

Room 209-B			
Time	Page	Speaker	Talk Title
Sensors and Applications		Chair: Mei Zhang	
09:30-10:00		Ivo Stachiv	Phase changeable NiTi shape memory alloy films for actuators and ultrasensitive sensing devices
10:00-10:30		Rahul Purbia	Light-mediated Synthesis of Urchin-like Ag Nanostructures for Enhanced SERS
10:30-11:00		Sung-Wook Nam	Wafer-Scale Fabrication of Nanochannel Ion Transistors for Detecting Single DNA Molecules
Smart Materials and Applications		Chair: Ivo Stachiv	
11:00-11:30		Mei Zhang	Nanocarbon Foam - Properties and Applications
11:30-12:00		Heng Li	Tailoring microstructure evolution for improving shape memory effect of Ni-Ti-Nb shape memory alloy
12:00-12:30		Guangjin Hou	Mechanism of syngas conversion on bifunctional catalysts characterized by solid-state NMR spectroscopy
12:30-14:00	<i>Lunch Break</i>		

Collaborative Conference on Materials Research (CCMR) 2019

03 – 07 June 2019

KINTEX, Goyang/Gyeonggi, South Korea

DAY 4 (Thursday 06 June)

Room 210-A			
Time	Page	Speaker	Talk Title
Optoelectronic Materials		Chair: Tianxing Ma	
09:30-10:00		Gil Shalev	Light trapping beyond the Yablonovitch limit with silicon surface arrays of subwavelength light funnels
10:00-10:30		Juan Carlos Salcedo Reyes	Improving extraction efficiency of OLEDs by a luminescent polymer embedded in a colloidal crystal matrix
Graphene and Applications		Chair: Gil Shalev	
10:30-11:00		Seiji Sakai	Fabrication and spintronic properties of novel graphene/half-metal heterostructures
11:00-11:30		Soon-Gil Yoon	Transfer-Free, Large-Scale, High-Quality, Monolayer Graphene Synthesized at Lower Temperatures than Boiling Point of Water
11:30-12:00		Tianxing Ma	Magnetic and superconducting correlation in monolayer and twisted bilayer graphene
12:00-12:30		Masao Nagase	Single-Crystal Graphene on SiC Substrate for Future Electronic Devices
12:30-14:00	<i>Lunch Break</i>		

CCMR 2019

3 - 7 June 2019

KINTEX, Goyang/Gyeonggi, South Korea

CCMR 2019 Conference Schedule

3 - 6 June	On-site Registration in the Venue, 9:00 - 5:00 PM (Carried on during the conference, Monday at 8.00 am)
3 June Monday	Full day oral presentations, 9.30 - 5:00PM Poster Session from 5:30PM Conference Reception from 6:00PM - (Buffet & wine with live music show)
4 June Tuesday	Full day oral presentations, 9.30 - 5:00PM Evening Activity , from 6:00 - 09.00PM (Depending on weather, subject to cancelation)
5 June Wednesday	Full day oral presentations, 9.30 - 5:00PM Conference Banquet from 6:00PM – Welcoming & congratulatory address (Buffet & wine with live music shows)
5 June Thursday	Full day oral presentations, 9.30 - 12:30AM
7 June Friday	All Day Tour , 8.00 - 6:00PM (Transportation, tickets & lunch covered)

Gyeonggi Korea



Gyeonggi-do :

Gyeonggi-do is the most populous province in South Korea, surrounding the capital, Seoul. Goyang-si is one of the popular cities in Gyeonggi-do. The three jurisdictions including Seoul, Incheon and Gyeonggi-do are collectively referred to as Sudogwon and cover 11,730 km², with a combined population of ~27 million—amounting to over half of the entire population of South Korea.

CCMR 2019

3 - 7 June 2019

KINTEX Goyang/Gyeonggi, South Korea

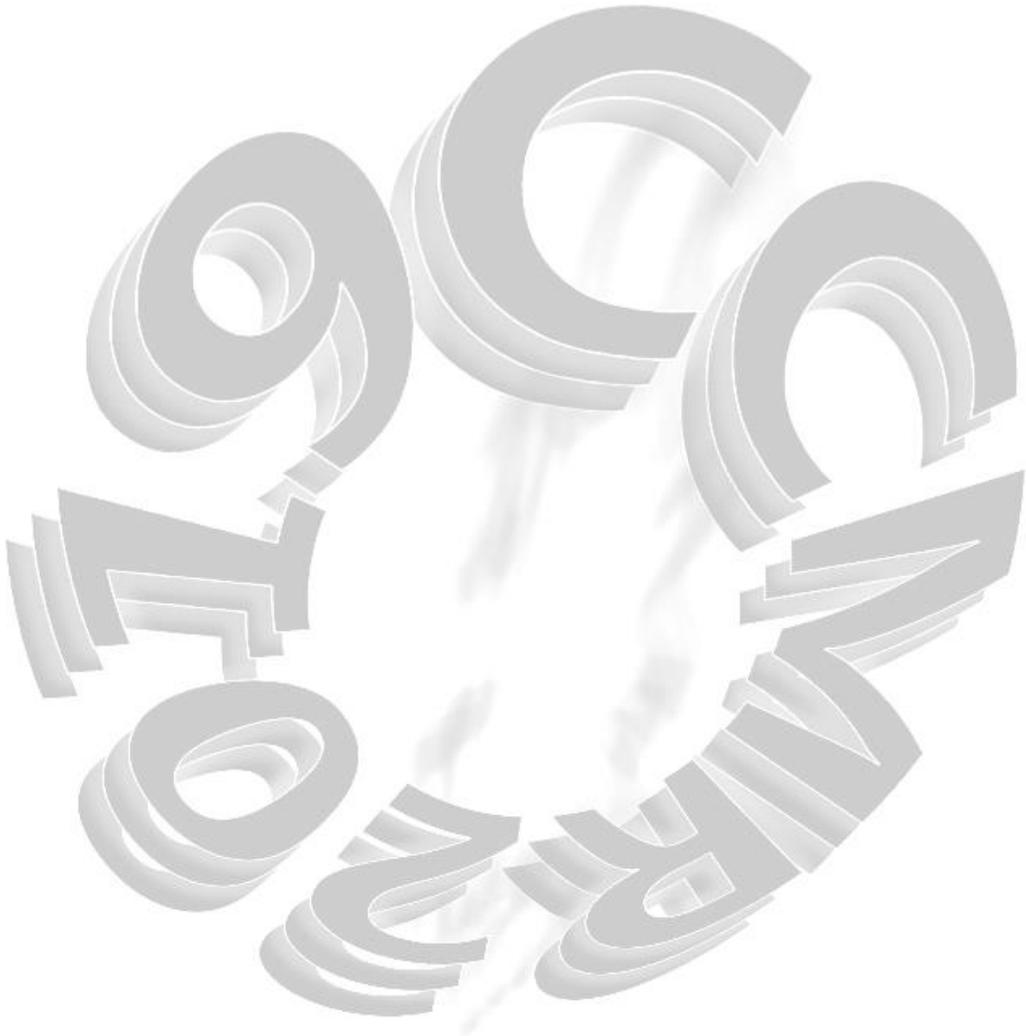
Seoul Korea



Seoul:

Seoul is the capital and largest city of South Korea. A megacity with a population of over 10 million, it is one of the largest cities in the world. The Seoul National Capital Area is home to four UNESCO World Heritage Sites: Changdeokgung, Hwaseong Fortress, Jongmyo Shrine and the Royal Tombs of the Joseon Dynasty.

Things around KINTEX



03 - 07
June

Things around KINTEX

Ilсан Lake Park (~ 20 min walk from KINTEX)



More INFO: http://english.visitkorea.or.kr/enu/ATR/SI_EN_3_1_1_1.jsp?cid=1949711

03 - 07
June

Things around KINTEX

Ilсан Lake Park (~ 20 min walk from KINTEX)



More INFO: http://english.visitkorea.or.kr/enu/ATR/SI_EN_3_1_1_1.jsp?cid=1949711

03 - 07
June

Things around KINTEX

Ilсан Lake Park (~ 20 min walk from KINTEX)

Operating Hours: Apr - Oct: 05:00 - 22:00

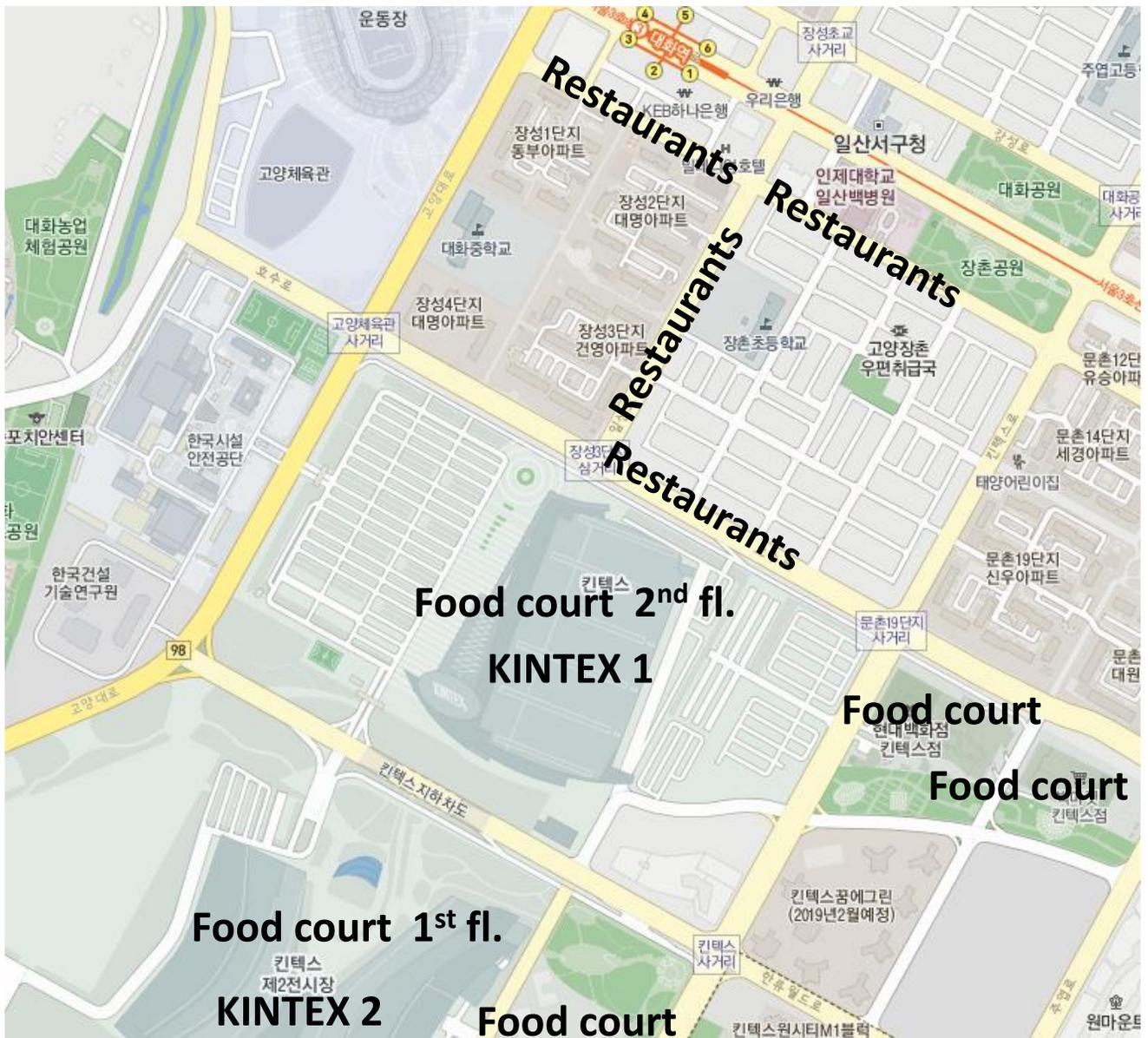
Admission Fees: Free



More INFO: http://english.visitkorea.or.kr/enu/ATR/Sl_EN_3_1_1_1.jsp?cid=1949711

Restaurants around KINTEX

1. Food court **KINTEX 1 & 2**
2. In the **Mega-stores**.
3. Restaurants on the **streets**.



03 - 07
June

Things around KINTEX

E-marts (mega-mart & food court)

:decent price and everything found

Hours: 10:00 ~ 23:00

Close: 2/4th Wed



03 - 07
June

Things around KINTEX

Home Plus (mega-mart & food court)

:decent price and everything found

Hours: 10:00 ~ 23:00

Close: 2/4th Wed



03 - 07
June

Things around KINTEX

Hyundai department Store

:Luxury and premium & food court

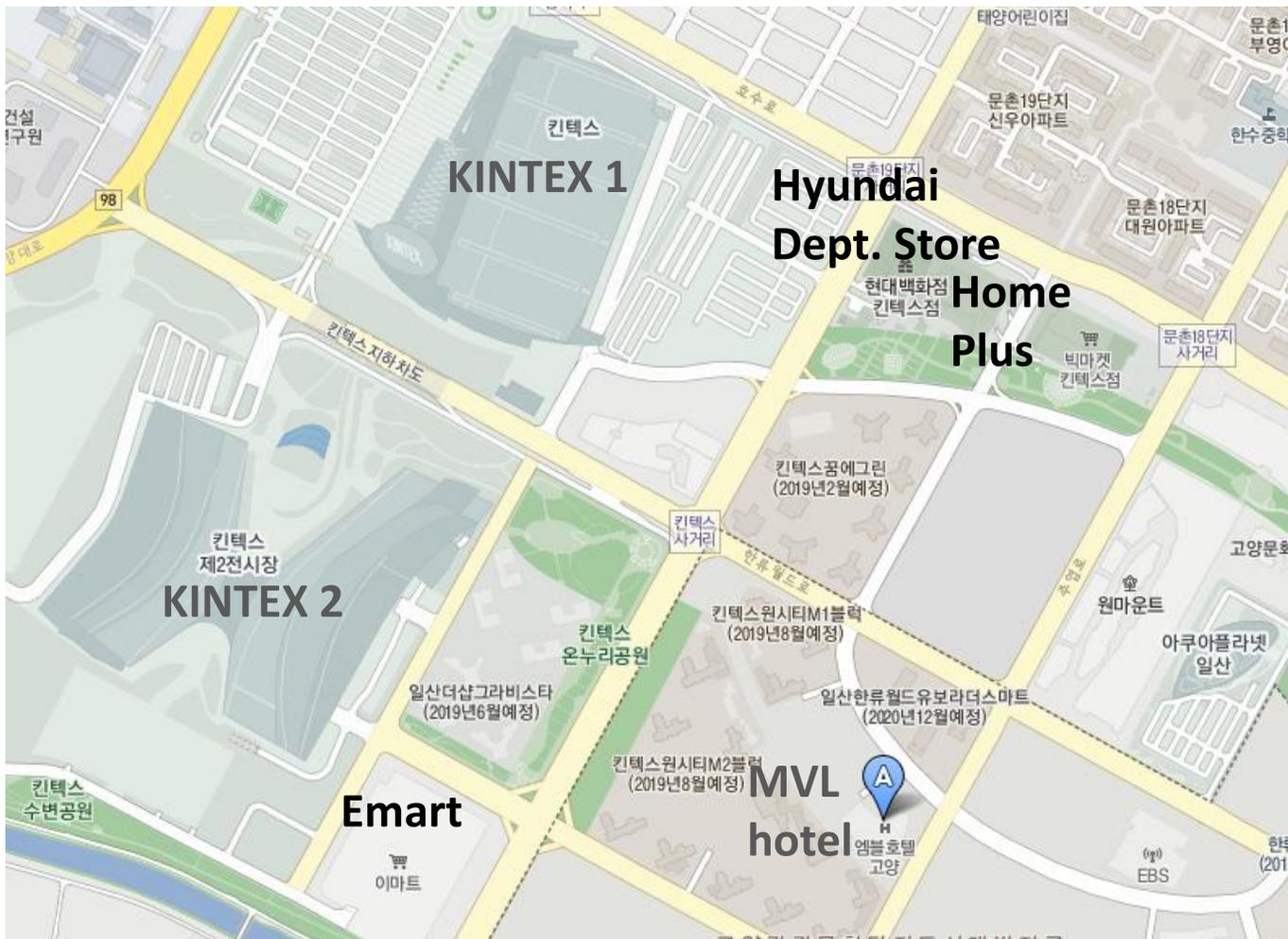
Hours: 10:30 ~ 20:00

Close: every Monday



Mega-marts (shopping malls)

:decent price and everything found



1. Emart
2. Home Plus
3. Hyundai Dept. Store

03 - 07
June

Things around KINTEX

One Mount

4 season Water Park and Snow Park



ENJOY YOURSELF TO THE MAX AT THE BEST PLAYGROUND ON EARTH

ONEMOUNT



INFO: <http://en.onemount.co.kr/>

Video: https://youtu.be/OMkZcv0iOfM?list=PL_srUjbr1OcAK3SsetGZ9wmEiMSlar00G

03 - 07
June

Things around KINTEX

One Mount

4 season Water Park and Snow Park



ENJOY YOURSELF TO THE MAX AT THE BEST PLAYGROUND ON EARTH
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03 - 07
June

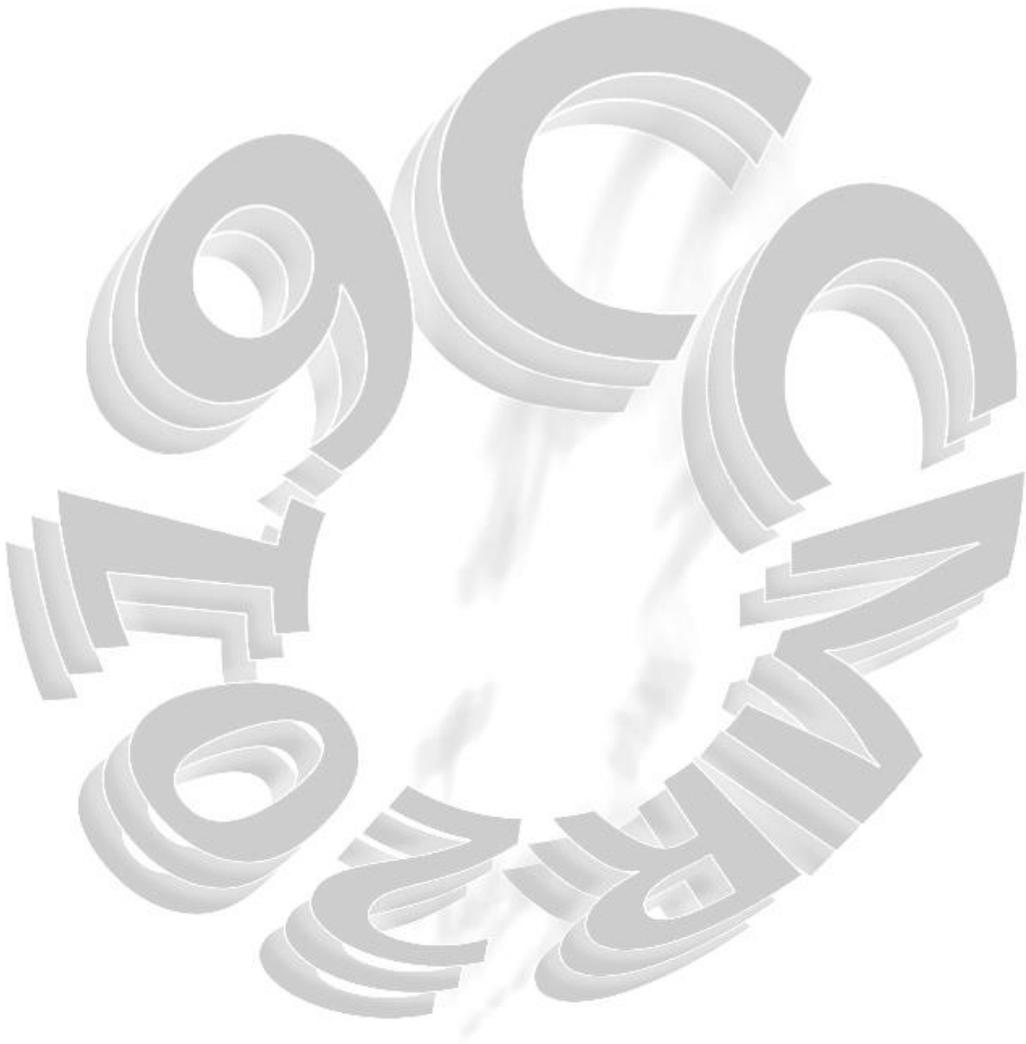
Things around KINTEX

Hyundai Motor studio



More INFO: <http://motorstudio.hyundai.com/goyang/en/ln/main.do>

Social Programs



03 June
Monday

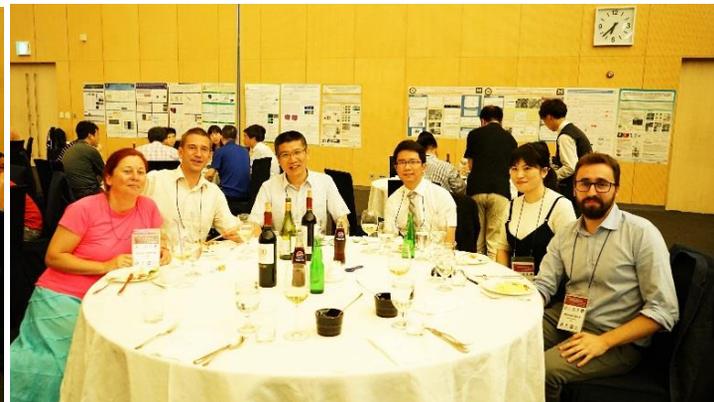
Poster Session

03 June Monday at 5:30: wine served



03 June
Monday

Conference Reception (Buffet with wine & live music show)



03 June
Monday

Conference Reception (Buffet with wine & live music show)



03 June
Monday

Conference Reception

(Buffet with wine & live music show)



03 June
Monday

Conference Reception

(Buffet with wine & live music show)



04 June
Tuesday

Suggested evening activity
(transportation & ticket covered by the conference)

Walk around Park and Chicken & Beer



*** Depending on the weather condition, subject to cancelation.**

04 June
Tuesday

Suggested evening activity
(transportation & ticket covered by the conference)

Walk around Park and Chicken & Beer



* Depending on the weather condition, subject to cancelation.

05 June
Wednesday

Conference Banquet

(Buffet with wine & live music show)



05 June
Wednesday

Conference Banquet

(Buffet with wine & live music show)



05 June
Wednesday

Conference Banquet

(Buffet with wine & live music show)



05 June
Wednesday

Conference Banquet

(Buffet with wine & live music show)



05 June
Wednesday

Conference Banquet

(Buffet with wine & live music show)



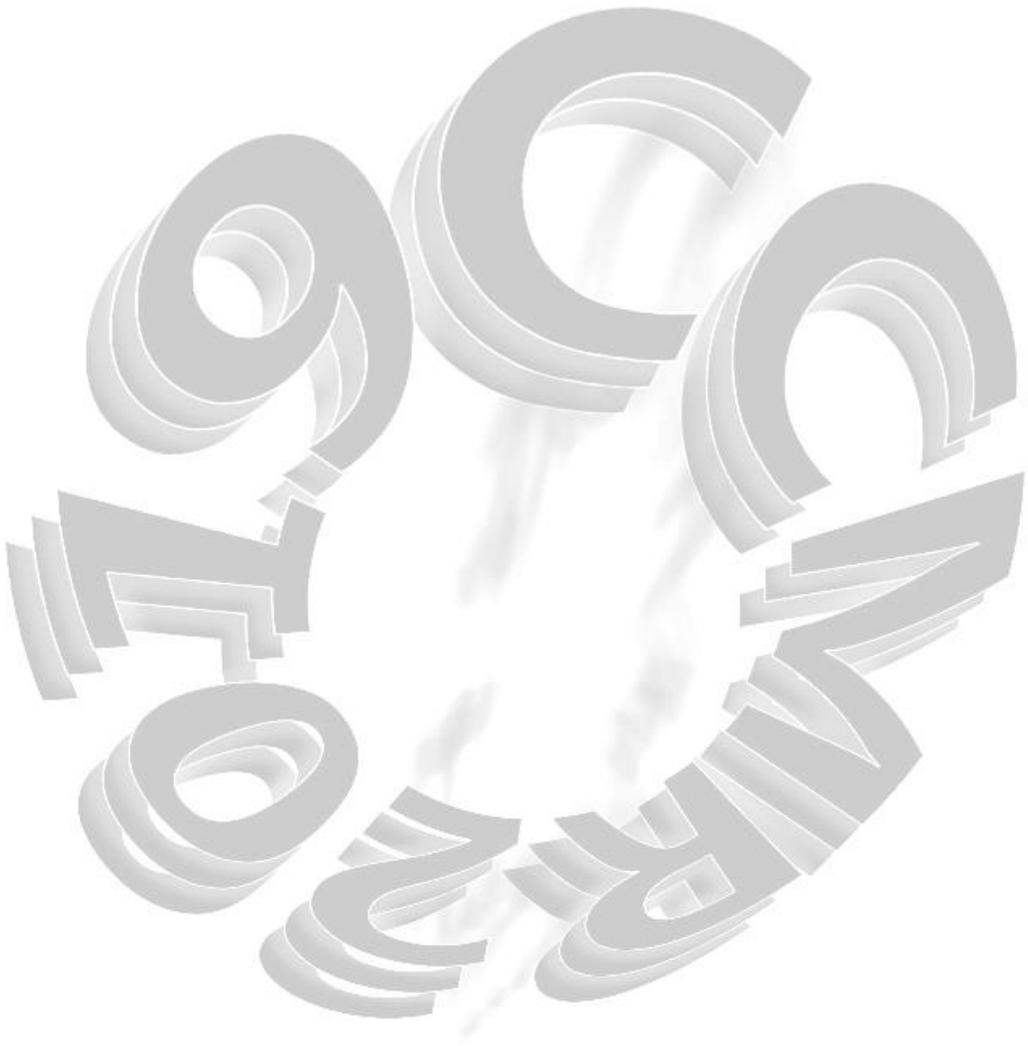
05 June
Wednesday

Conference Banquet

(Buffet with wine & live music show)



Scientific excursion



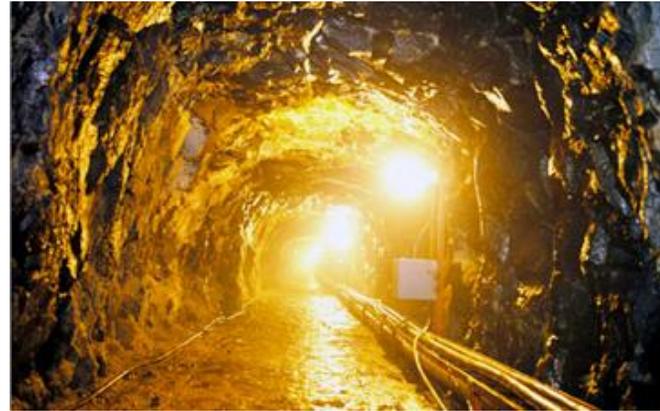
07 June
Friday

Scientific excursion

(transportation & tickets covered by the conference)



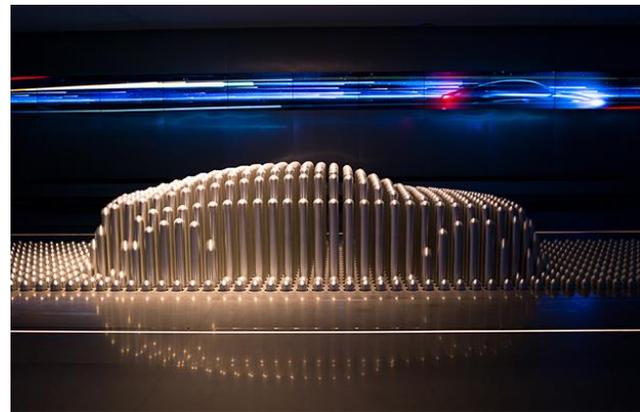
1. Dora Observatory (of the Military Demarcation Line)
Time – 08:00 ~ 10:00



2. The 3rd infiltration Tunnel
Time – 10:00 ~ 12:00



3. Imjingak or lunch
Time – 12:30 ~ 15:00
Depending on time left
after the tunnel tour



4. Hyundai Motor studio
Time – 15:30 ~ 17:00

- * Must carry passport as entering the de-militarized zone (DMZ)
- * Locations and time subject to change

**07 June
Friday**

Scientific excursion

**(transportation & tickets covered by the
conference)**

Dora Observatory (of the Military Demarcation Line)

Situated in Paju-si, Gyeonggi-do and at the northernmost point of the Military Demarcation Line, Dora Observatory replaced the previous Songaksan Observation Post. From the observatory, visitors can overlook North Korea and various locations including Gaeseong, Songaksan, Kim Il-Sung Statue, and Cooperation Farm (Geumamgol). The observatory offers 500 seats, VIP rooms, and abundant parking space. It was first opened to the public in January 1987.

More INFO:

http://english.visitkorea.or.kr/enu/ATR/SI_EN_3_1_1_1.jsp?cid=1066062



**07 June
Friday**

Scientific excursion

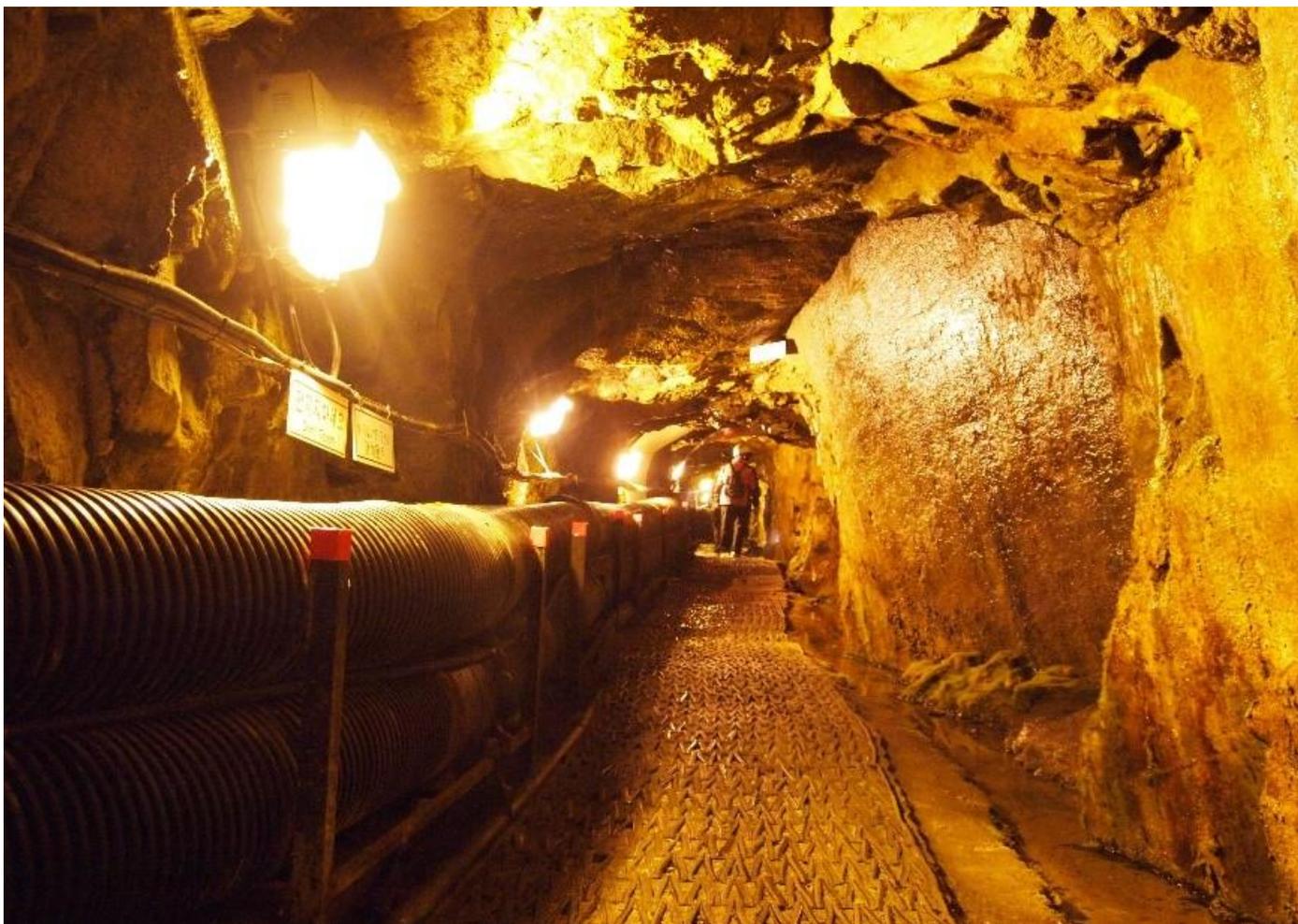
**(transportation & tickets covered by the
conference)**

The 3rd infiltration Tunnel

The 3rd Tunnel was discovered in 1978 by South Korean forces. It spans over 1,635m in length, 2m in width, and 2m in height and is located 52km from Seoul. It is estimated that approximately 30,000 soldiers could move through the tunnel per hour. The scale is similar to the 2nd Tunnel, but it was thought to be more threatening as an invasion tool than the 1st and 2nd Tunnels. Located only 4km away from Imjingak toward the southwest and 3.5km from the Tongilchon area, it is accessible by car in about 45 minutes.

More INFO:

http://english.visitkorea.or.kr/enu/ATR/SI_EN_3_1_1_1.jsp?cid=264488



07 June
Friday

Scientific excursion

(transportation & tickets covered by the conference)

Imjingak

Imjingak Resort, located 7 km from the Military Demarcation Line, is now at the forefront of tourism related to the Korean War. Imjingak was built in 1972 with the hope that someday unification would be possible. The three-storied Imjingak is surrounded by several monuments, Unification Park and North Korea Center.

Over 400 photos and documents showing the stark reality of North Korea are displayed in the North Korea Center of Unification Board. Outside Imjingak, there are 12 unique tanks and warcrafts on display that were used during the war.

More INFO:

http://english.visitkorea.or.kr/enu/ATR/SI_EN_3_1_1_1.jsp?cid=264487



07 June
Friday

Scientific excursion

(transportation & tickets covered by the conference)

Hyundai Motor studio

Hyundai Motor studio offers new ways to experience automotive culture. It's a space that embodies Hyundai Motor Company's journey to enrich daily lives as a companion in the creation of a new kind of car culture. Every automobile made by Hyundai Motor Company is on display, ready for you to experience and Hyundai Motor studio Goyang offers unique artwork embodying the company's philosophy.

More INFO:

<http://motorstudio.hyundai.com/goyang/en/In/main.do>



CCMR 2020





CCMR 2020

08 - 12 June 2020

Songdo Convensia, Incheon/Seoul, South Korea

Collaborative Conference on Materials Research (CCMR) 2020

8 - 12 June 2020, Incheon/Seoul, South Korea

Collaborative Conference on Materials Research (CCMR) 2020

: This collaborative conference series is established to enable technological developments in various fields of materials and to further the goal of unifying materials research in engineering, physics, biology, materials science, as well as chemistry and neuroscience. CCMR 2020, as the tenth conference in this series, offers materials researchers the opportunity to discuss and exchange information with the frontiers in their fields and network with scientists from various other fields for potential interdisciplinary collaborations.

Conference Organizer:

Jihoon Lee, Kwangwoon University, Seoul, South Korea

Honorary Conference Chair:

Prof. Gregory J. Salamo, University of Arkansas, USA

CCMR 2020 Conference Schedule (tentative)

8 - 12 June	<p>On-site Registration in the Venue, 9:30 - 5:00 PM (Carried on during the conference, Monday at 8.00 am)</p>
8 June Monday	<p>Full day oral presentations, 9.00 - 5:00PM Poster Session from 5:30PM Conference Reception from 6:00PM - (Buffet & wine with live music show)</p>
9 June Tuesday	<p>Full day oral presentations, 9.00 - 5:00PM Evening Activity, from 6:00 - 08.00PM (Transportation and tickets covered)</p>
10 June Wednesday	<p>Full day oral presentations, 9.00 - 5:00PM Conference Banquet from 6:00PM – Welcoming & congratulatory address (Buffet & wine with live music shows)</p>
11 June Thursday	<p>Full day oral presentations, 9.00 - 5:00PM</p>
12 June Friday	<p>All Day Tour, 7.30 - 6:00PM (Transportation, tickets & lunch covered)</p>

**12 June
Friday**

Scientific excursion

(transportation & tickets covered by the conference)



1. Leave for NFM
Time – 07:30 am



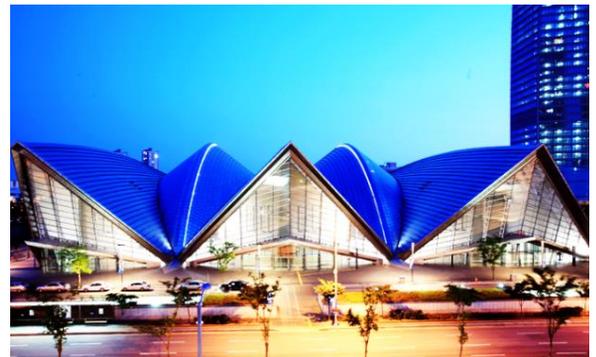
2. National Folk Museum of Korea
Time – 09:00 ~ 11:30



3. Lunch & Insadong Antique street tour
Time – 12:00 ~ 14:00



4. Namsan Seoul Tower
Time – 14:30 ~ 17:00



5. Leave for Convensia
Time – 17:00 (~ 1hr taking)

* Locations and time subject to change depending the schedule

Seoul Korea



Seoul:

Seoul is the capital and largest city of South Korea. A megacity with a population of over 10 million, it is one of the largest cities in the world. The Seoul National Capital Area is home to four UNESCO World Heritage Sites: Changdeokgung, Hwaseong Fortress, Jongmyo Shrine and the Royal Tombs of the Joseon Dynasty.