

Opening Ceremony

Monday, December 4, 09:30~10:00 AM, Room A

Chair : Katsumi Morishita, Osaka Electro-Communication University, Japan

10:00 **Coffee Break**

Keynote Lectures

Monday, December 4, 10:20~12:50 AM, Room A

Chair : Masahiro Hashimoto, Osaka Electro-Communication University, Japan

- 10:20 **Construction and Evolution of China Optical Fiber Transport Networks**
Leping Wei
China Academy of Telecommunications Research, China
- 10:50 **The Research Progress of Optical Communications Technologies in China**
Mao Qian
Wuhan Research Institute of Posts and Telecommunications, China
- 11:20 **Recent Progress of Integrated Optics**
Hiroshi Nishihara
Osaka University, Japan
- 11:50 **Microwave Photonics : Towards the Integration of Radio and Light Wave Technologies**
Masayuki Izutsu
Communications Research Laboratory, Japan
- 12:20 **Wavelength Division Multiplexed Optical Submarine Transmission Systems**
Tadayoshi Kitayama
Mitsubishi Electric Corporation, Japan
- 12:50 **Lunch**

Optical Fibers (1)

Monday, December 4, 14:00~15:35 PM, Room A

Co-Chairs : Akira Komiyama, Osaka Electro-Communication University, Japan

Masayuki Matsumoto, Osaka University, Japan

- 14:00 **Coupled Mode Theory and Its Application to Fiber Gratings** (invited)
Jingren Qian
University of Science and Technology of China, China
- 14:25 **All-Fiber White-Light VISAR and Velocity Tests** (invited)
Hu Li, Ye Kunzheng, and Jia Bo
University of Electronic Science and Technology of China, China
- 14:50 **Analysis of All-Optical Wavelength Converters and Their Cascadability**
Atsuo Tachibana and Masayuki Matsumoto
Osaka University, Japan

- 15:05 **Efficient Improved Fourier-Expansion Methods for Dielectric Lamellar Gratings in Conical Diffraction**
Minoru Komatsu⁽¹⁾, Jiro Yamakita⁽¹⁾, Keiji Matsumoto⁽²⁾, and Masamitsu Asai⁽³⁾
(1) Okayama Prefectural University, Japan
(2) Osaka-Sangyo University, Japan
(3) Kinki University, Japan
- 15:20 **Chirp Elimination Using a Linearly Chirped Fiber Grating**
Xiaoguang Zhang, Zhongyuan Yu, and Ning Lin
Beijing University of Posts and Telecommunications, China
- 15:35 **Coffee Break**

Optical Fibers (2)

Monday, December 4, 15:55~17:25 PM, Room A

Co-Chairs : Lin Jintong, Beijing University of Posts & Telecommunications, China

Hiroyuki Toda, Osaka University, Japan

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- 15:55 **Development of Stainless-Steel Tube Secondary Coating Fiber with Long Excess Length**
Li Su-ming and Du Bo-lin
Heng Tong Group, China
- 16:10 **A Novel Devising Method of Comb-like Dispersion Profiled Fiber (CDPF) Compressor with the Considerations of Waveform and Duration**
Zhang Fan, Wu Jian, and Lin Jintong
Beijing University of Posts & Telecommunications, China
- 16:25 **Refractive-Index Changes in Optical Fibers Induced by Local Heat Treatments**
Katsumi Morishita
Osaka Electro-Communication University, Japan
- 16:40 **Power Equalization Scheme of Reconfigurable OADM Ring Networks in the All Optical Test Networks**
Laifu Fang, Jianquan Wang, Mianfeng Lin, Huilian Li, and Wanyi Gu
Beijing University of Posts & Telecommunications, China
- 16:55 **Improvement of Amplitude and Phase Margins in Optical RZ Receiver Using Nonlinearity in Normal Dispersion Fiber: Effect on the Gordon-Haus Timing Jitter**
Maoki Suzuki, Hiroyuki Toda, Anhui Liang, and Akira Hasegawa
Osaka University, Japan
- 17:10 **A High-Resolution Wavelength Demodulation System Used for FBG Sensor**
Dong Xinyong, Guan Bai'ou, Kai Guiyun, Liu Zhiguo, and Dong Xiaoyi
Nankai University, China

Computational Electromagnetics

Monday, December 4, 14:00~15:35 PM, Room B

Co-Chairs : Hiroyoshi Ikuno, Kumamoto University, Japan

Masanori Koshiba, Hokkaido University, Japan

- 14:00 **Research Trends in Computational Electromagnetics** (invited)
Hiroyoshi Ikuno
Kumamoto University, Japan
- 14:25 **Design and Modeling of Photonic Crystal Waveguides** (invited)
Masanori Koshiba
Hokkaido University, Japan
- 14:50 **Evaluation of Iterative Solution Methods in Using 3D Volume Integral Equation**
Yasuo Takahashi, Kazuo Tanaka, and Masahiro Tanaka
Gifu University, Japan
- 15:05 **Numerical Simulations of Simplified Near-Field Optical Microscope by 3D Volume Integral Equation Method**
Kazuo Tanaka, Mengyun Yan, and Masahiro Tanaka
Gifu University, Japan
- 15:20 **Guided Mode Analysis of Two-Dimensional Photonic Crystal Optical Waveguides**
Yoshihiro Naka and Hiroyoshi Ikuno
Kumamoto University, Japan
- 15:35 **Coffee Break**

Optical Devices (1)

Monday, December 4, 15:55~17:45 PM, Room B

Co-Chairs : Kazuo Tanaka, Gifu University, Japan

Shi-Ping Zhou, Shanghai University, China

- 15:55 **Photoinduced Nonlinear Effect in Semiconductive Waveguide** (invited)
Shi-Ping Zhou and Deming Xu
Shanghai University, China
- 16:20 **Application of Singular and Hypersingular Integral Equations in Electromagnetics and Microwave Electronics Problem** (invited)
G.I. Zaginaylov, Yu.V. Gandel, and V.A. Scsherbin
Kharkov National University, Ukraine
- 16:45 **Theory on Optical Isolator-Modulator in Yig Film Waveguide**
S.K.Dana, T.Ueda and M.Tsutsumi
Kyoto Institute of Technology, Japan
- 17:00 **Radiated Second-Harmonic Wave in Nonlinear Waveguide Coupler with Two Gratings**
Shinichi Takaishi and Mitsuhiro Yokota
Miyazaki University, Japan

- 17:15 **Short Cavity Er/Yb Fiber Bragg Grating Laser in 1550nm Waveband**
Ying Zhang, Li Ding, De-jun Feng, Gui-yun Kai, Shu-zhong Yuan, and Xiao-yi Dong
Nankai University, China
- 17:30 **Tunable Narrow Line-Width Pulses Generated from a Laser Diode Using a
Fiber Bragg Grating**
Zhao Chunliu, Ma Ning, Yuan Shuzhong, Ding Lei, Liu Heliang, Lv Fuyun ,
Liu Zhiguo, and Dong Xiaoyi
Nankai University, China

Random Media and Rough Surfaces

Tuesday, December 5, 08:45~10:25 AM, Room A

Co-Chairs : Yasumitsu Miyazaki, Toyohashi University of Technology, Japan

Mitsuo Tateiba, Kyushu University, Japan

- 08:45 **Analysis of Scattering Characteristics of Subsurface Radar Pulse by
Buried Objects in Random Media using 3-Dimensional FDTD Method**
Koichi Takahashi and Yasumitsu Miyazaki
Toyohashi University of Technology, Japan
- 09:00 **Bistatic Cross-Sections of a Conducting Circular Cylinder Embedded in
Random Media with Special Reference to Spatial Coherence
Lengths of Scattered Waves**
Z. Q. Meng ⁽¹⁾ and M. Tateiba ⁽²⁾
(1) Fukuoka University, Japan
(2) Kyushu University, Japan
- 09:15 **Random Media in Remote Sensing (invited)**
Mitsuo Tateiba
Kyushu University , Japan
- 09:40 **Singularities in the Modal Density of States of a Two-Component
Disordered Waveguide System**
Akira Komiyama
Osaka Electro-CommunicationUniversity, Japan
- 09:55 **An Accurate Solution for Random Rough Surface Scattering at Low-Grazing Angle**
Kwang-yeol Yoon ⁽¹⁾ , Mitsuo Tateiba ⁽¹⁾, and Kazunori Uchida ⁽²⁾
(1) Kyushu University, Japan
(2) Fukuoka Institute of Technology, Japan
- 10:10 **Extraction of Optical Clock Pulses from the Uneven Allocation Optical
Pulses of Signal**
Yang En-ze, Dai Ju-feng, Yu Jin-long, Ma Xiao-hong, Wang-Lin and Liu Jian-fei
Tianjin University, China
- 10:25 **Coffee Break**

Scattering and Diffraction (1)

Tuesday, December 5, 10:45~12:25 AM, Room A

Co-Chairs : Kazuya Kobayashi, Chuo University, Japan

Toyohiko Ishihara, National Defense Academy, Japan

- 10:45 **Bistatic Scattering from Rough Sea Surface with a Ship Presence at LGA Incidence Using the GFBM/SAA Method** (invited)
Ya-Qiu Jin and Zhongxin Li
Fudan University, China
- 11:10 **Plane Wave Diffraction by a Thin Material Strip: Solution by the Analytical-Numerical Approach**
Eldar I.Veliev ⁽¹⁾, Shoichi Koshikawa ⁽²⁾, and Kazuya Kobayashi ⁽³⁾
(1) Institute of Radiophysics and Electronics, National Academy of Sciences of Ukraine
(2) Antenna Giken Co., Ltd., Japan
(3) Chuo University, Japan
- 11:25 **Analysis of Backscattering from Concave-Convex Targets in Random Media for H-Wave Incidence**
H. El Ocla and M. Tateiba
Kyushu University, Japan
- 11:40 **Numerical Analysis of the Effective Constitutive Parameters of a Random Medium Containing Spherical Chiral Particles**
Yukihisa Nanbu ⁽¹⁾, Wei Ren ⁽²⁾, Tsuyoshi Matsuoka ⁽³⁾, Michiyo Hiramoto ⁽³⁾, and Mitsuo Tateiba ⁽³⁾
(1) Sasebo National College of Technology, Japan
(2) McMaster University, Canada
(3) Kyushu University, Japan
- 11:55 **Scattering of a Gaussian Beam by Spherical Objects**
Haruo Sakurai ⁽¹⁾, Makoto Ohki ⁽²⁾, Kuniyuki Motojima ⁽²⁾, and Shogo Kozaki ⁽²⁾
(1) Gunma College of Technology, Japan
(2) Gunma University, Japan
- 12:10 **Scattering of Light Wave from Photorefractive Slab**
Mitsuhiro Yokota
Miyazaki University, Japan
- 12:25 **Lunch**

Scattering and Diffraction (2)

Tuesday, December 5, 13:45~15:25 PM, Room A

Co-Chairs : Mitsuru Tanaka, Oita University, Japan

Ya-Qiu Jin, Fudan University, China

- 13:45 **Polarimetric Scattering of Non-Spherical Chiral Particles**
Ya-Qiu Jin and Mei Chang
Fudan University, China

- 14:00 **Fabrication of Rare-Earth Elements Doped Fibers by MCVD Method** (invited)
Liu Youxin ⁽¹⁾, Yin Hongbing ⁽²⁾, Wu Shujian ⁽²⁾, Chen Shuling ⁽²⁾,
Li Siyu ⁽²⁾, Wang Yangliang ⁽²⁾, and Yao Ji ⁽²⁾
(1) Wuhan Research Institute of Posts & Telecom., China
(2) Fiber Home Telecom. Tech. Co. Ltd. , China
- 14:25 **Analysis of Electromagnetic Scattering in Large Areas Using a Parallel FDTD Method**
Glen Rodriguez and Yasumitsu Miyazaki
Toyohashi University of Technology, Japan
- 14:40 **Electromagnetic Scattering from a Dielectric Cylinder with Multiple Eccentric Cylindrical Inclusions**
Hiroshi Toyama, Tomohiro Iwasaki, and Kiyotoshi Yasumoto
Kyushu University, Japan
- 14:55 **Scattering of a Gaussian Beam by a Multilayered Dielectric Cylinder with Metallic Cap**
Takayuki Takagi ⁽¹⁾, Haruo Sakurai ⁽²⁾, Makoto Ohki ⁽¹⁾, and Shogo Kozaki ⁽¹⁾
(1) Gunma University, Japan.
(2) Gunma College of Technology, Japan
- 15:10 **Asymptotic Analysis of Transient Electromagnetic Fields Scattered by Cylindrically Curved Conducting Surfaces**
Keiji Goto ⁽¹⁾ and Toyohiko Ishihara ⁽²⁾
(1) Signal School of the Japan Ground Self-Defense Force, Japan
(2) National Defense Academy, Japan
- 15:25 **Coffee Break**

Optical Components (1)

Tuesday, December 5, 15:45~17:35 PM, Room A

Co-Chairs : Shinnosuke Sawa, Osaka Prefecture University, Japan

Toshiaki Suhara, Osaka University, Japan

- 15:45 **Ultrafast Optical Time Division Multiplexing Networks: Technologies and Applications** (invited)
Jintong Lin
Beijing University of Posts & Telecom., China
- 16:10 **Integrated Photonic Devices Using Quantum-Well Lasers and Waveguide Grating Components** (invited)
Toshiaki Suhara
Osaka University, Japan
- 16:35 **Carrier Confinement in InXGa1-XAs/GaAsP Strain-Compensated Single-Quantum-Well Lasers**
W. Susaki ⁽¹⁾, K. Kondo ⁽¹⁾, H. Yaku ⁽¹⁾, H. Asano ⁽²⁾, T. Fukunaga ⁽²⁾,
and T. Hayakawa ⁽²⁾
(1) Osaka Electro-Communication University, Japan
(2) Fuji Photo Film Ltd, Japan
- 16:50 **A Three-Branch Waveguide for Even Division of Optical Power on a New Design Concept**
Yabu Tetsuro, Geshiro Masahiro, and Sawa Shinnosuke
Osaka Prefecture University, Japan

- 17:05 **Dynamic Characteristics of Yb-Sensitized Er-Doped Garnet Crystal Waveguide-Type Optical Amplifiers**
R. Balasubramanian, Yasuhiro Fukuyama, and Yasumitsu Miyazaki
Toyohashi University of Technology, Japan
- 17:20 **Amplifying the Fabry-Perot Cavity Fiber Laser's Output with the Surplus Pump Energy**
Ding Lei, Xu Yanjun, Yuan Shuzhong, Feng Dejun, Kai Guiyun, and Dong Xiaoyi
Nankai University, China
- 18:00 **Banquet**

Optical Fibers (3)

Tuesday, December 5, 08:45~10:25 AM, Room B

Co-Chairs : Kiyoshi Kishioka, Osaka Electro-Communication University, Japan

Wang Qiming, Institute of Semiconductors, Chinese Academy of Sciences, China

- 08:45 **Investigation on Integrated High Speed DFB Light Source and Narrow Bandwidth RCE Photodetector for WDM Fiber Communication Network Application** (invited)
Wang Qiming ⁽¹⁾, Li Cheng ⁽¹⁾, Pan Zhong ⁽¹⁾, and Luo Yi ⁽²⁾
(1) Institute of Semiconductors, Chinese Academy of Sciences, China
(2) Tsinghua University, China
- 09:10 **9_15 Star Coupler Design of Ti:LiNbO3 Optical Waveguide for Optical BFN in Steerable Multibeam Array Antenna**
Weiwei Hu, Keizo Inagaki, Yoshihiko Mizuguchi and Takashi Ohira
ATR Adaptive Communications Research Laboratories, Japan
- 09:25 **A Novel Dispersion-Imbalanced Loop Mirror for Gain-Switched Laser Diode Pulse Compression**
Liu Xianbing ⁽²⁾, Luo Jie ⁽¹⁾, Ye Peida ⁽¹⁾, and Zhao Zisen ⁽²⁾
(1) Beijing University of Posts and Telecommunications, China
(2) Wuhan Research Institute of Posts and Telecommunications, China
- 09:40 **Characteristics of Optical Resonator Composed of the Alternating Coupler**
Kiyoshi Kishioka and Tadashi Sakagami
Osaka Electro-Communication University, Japan
- 09:55 **Characteristics of Polarization Splitter Constructed from Two Optical Fibers with a Circular Hollow Pit Outside a Core**
Kazunori Kameda ⁽¹⁾, Shinichi Furukawa ⁽¹⁾, Takashi Hinata ⁽²⁾, and Toshio Hosono ⁽²⁾
(1) Sano International Information Junior College, Japan
(2) Nihon University, Japan
- 10:10 **Propagation Characteristics of Single-Polarization Optical Fiber with the Cross Section of Arbitrary Shape**
Shinichi Furukawa ⁽¹⁾, Masayuki Saitou ⁽²⁾, and Takashi Hinata ⁽²⁾
(1) Sano International Information Junior College, Japan
(2) Nihon University, Japan
- 10:25 **Coffee Break**

Optical Components (2)

Tuesday, December 5, 10:45~12:10 AM, Room B

Co-Chairs : Kiyotoshi Yasumoto, Kyushu University, Japan

Qian Jingren, University of Science and Technology of China, China

- 10:45 **Polarization Dependency of Twisted Fiber Couplers**
Tsutomu Yamaguchi
Kinki University, Japan
- 11:00 **Full-Vectorial Analysis of Optical Directional Coupler**
Tokuo Miyamoto ⁽¹⁾, Michiko Momoda ⁽¹⁾, and Kiyotoshi Yasumoto ⁽²⁾
(1) Fukuoka University, Japan
(2) Kyushu University, Japan
- 11:15 **Coupled-Mode Analysis of Coupled Open Waveguides Using a Singular Perturbation Technique** (invited)
Kiyotoshi Yasumoto and Koki Watanabe
Kyushu University, Japan
- 11:40 **Coupled Mode Equations for Generalized LP Modes Utilizing Variational Principle**
Chen Dengpeng and Qian Jingren
University of Science and Technology of China, China
- 11:55 **Analysis of Diffracted Waves from a Uniaxial Chiral Layer with a Thin Metallic Grating**
Masamitsu Asai ⁽¹⁾, Jiro Yamakita ⁽²⁾, Hideaki Wakabayashi ⁽²⁾, and Junya Ishii ⁽¹⁾
(1) Kinki University, Japan
(2) Okayama Prefectural University, Japan
- 12:10 **Lunch**

Electromagnetic Compatibility and Propagation

Tuesday, December 5, 13:45~15:25 PM, Room B

Co-Chairs : Zen-Ichiro Kawasaki, Osaka University, Japan

Hiroshi Shirai, Chuo University, Japan

- 13:45 **VHF Broadband Interferometer and Imaging of Lightning Channel** (invited)
Zen-Ichiro Kawasaki
Osaka University, Japan
- 14:10 **Numerical Performance of Electromagnetic Inner Fields in Small Aperture Radial Line Slot Antennas by Finite-Difference Time-Domain Approach**
Tetsuya Yamamoto and Mitsuhiro Ono
Yamagata University, Japan
- 14:25 **High Frequency Analysis of EM Scattering by Automobile Models**
Hiroshi Shirai, Toshiteru Hayashi, and Kazuhito Okawa
Chuo University, Japan
- 14:40 **Reducing Q-Factors of Resonances of Power/Ground Planes in PCBs by Using Metallic Films with High Resistivity**
Zhi Liang Wang, Osami Wada, and Ryuji Koga
Okayama University, Japan

- 14:55 **Simplification of Human Head Models for Designs of Cellular Telephone Antennas**
Kaori Shimomura, Shigekazu Mori, Akimasa Hirata, and Toshiyuki Shiozawa
Osaka University, Japan
- 15:10 **Electromagnetic Field Characteristics of Compact Broadband Microstrip Patch-Parasitic Array Antenna**
Nawi Berahim and Yasumitsu Miyazaki
Toyohashi University of Technology, Japan
- 15:25 **Coffee Break**

Electromagnetic Compatibility and Scattering

Tuesday, December 5, 15:45~17:25 PM, Room B

Co-Chairs : Masashi Hayakawa, University of Electro-Communications, Japan

Motoyuki Sato, Tohoku University, Japan

- 15:45 **Electromagnetic Phenomena Associated with Earthquakes** (invited)
Masashi Hayakawa
University of Electro-Communications, Japan
- 16:10 **Microwave Imaging of Cylindrical Dielectric Objects from Multifrequency Scattering Data**
Mitsuru Tanaka and Kuniomi Ogata
Oita University, Japan
- 16:25 **Borehole EM Measurement Simulation by FDTD**
Sixin Liu and Motoyuki Sato
Tohoku University, Japan
- 16:40 **Temperature Rises in the Human Head Exposed to EM Waves Emitted from a Dipole Antenna at Various Microwave Frequencies**
M. Morita, A. Hirata, and T. Shiozawa
Osaka University, Japan
- 16:55 **Scattering Analysis of X-ray Gaussian Beam by the Dielectric Cylinder Group**
Ryo Fukuo and Yasumitsu Miyazaki
Toyohashi University of Technology, Japan
- 17:10 **Sensitivity Enhancement of Long Period Fiber Grating Sensor for the Refractive Index Measurement**
Yunqi Liu ⁽¹⁾, Kin Seng Chiang ⁽²⁾, Mei Nar Ng ⁽²⁾, Zhuanyun Guo ⁽¹⁾,
and Xiaoyi Dong ⁽¹⁾
(1) Nankai University, China
(2) City University of Hong Kong, China
- 18:00 **Banquet**

Optical Devices (2)

Wednesday, December 6, 08:45~10:40 AM, Room A

Co-Chairs : Takashi Hinata, Nihon University, Japan

Yang Xiang Lin, Nanjing University of Posts and Telecommunication, China

- 08:45 **Electromagnetic Inverse Scattering of a Two-Dimensional Photonic Crystal**
Atsushi Kusunoki
Oita University, Japan
- 09:00 **Analytically Approximated Solution of the Transmission Properties on Photonic Crystal Waveguides**
Masato Ohtaka, Atsushi Miyagawa, Kazuki Wakabayashi, and Akihiro Hashimoto
Fukui University, Japan
- 09:15 **Application of Mode-Locked Laser Technologies in Soliton Communications** (invited)
Yang Xiang Lin, Wen Yang Jing, and Xu Ming
Nanjing University of Posts and Telecommunication, China
- 09:40 **Scattering of Electromagnetic Waves by Dielectric Gratings with Elliptically Layered Media**
Tsuneki Yamasaki, Takashi Hinata, and Toshio Hosono
Nihon University, Japan
- 09:55 **Optimization of High-Speed TDM and WDM Lines by Q-Map Method**
K. Shimoura, I. Yamashita, and S. Seikai
Technical Research Center of the Kansai Electric Power Co., Inc., Japan
- 10:10 **Imaginary-Distance Beam Propagation Method Based on Full-Vectorial Finite Element Scheme for Three-Dimensional Optical Waveguide**
Yasuhide Tsuji and Masanori Koshiba
Hokkaido University, Japan
- 10:25 **Joint Between a Photonic Crystal Optical Waveguide and a Dielectric Optical Waveguide**
A. Yata, Y. Naka, and H. Ikuno
Kumamoto University, Japan
- 10:40 **Coffee Break**

Optical Devices (3)

Wednesday, December 6, 11:00~12:45 AM, Room A

Co-Chairs : Masahiro Geshiro, Osaka Prefecture University, Japan

Kuniaki Yoshitomi, Kyushu University, Japan

- 11:00 **Analysis of Dual Band Filters Consisting of Slot-Coupled Microstrip Resonators**
Mitsutoshi Murata, Toshiaki Kitamura, Masahiro Geshiro, Shinnosuke Sawa, and Takeyuki Tominaga
Osaka Prefecture University, Japan
- 11:15 **Analysis of a Rectangular Waveguide with Resistive Sheet by Visual Equivalent Circuit Method**
Tsutomu Hashimoto ⁽¹⁾, Osami Ishida ⁽²⁾, and Yoji Isota ⁽²⁾

- (1) Tokyo University of Technology, Japan
 (2) Mitsubishi Electric Corporation, Japan
- 11:30 **A Multiport Representation of the Step Junction of Two Circular Dielectric Waveguides: Application to a Stepwise Approximation of a Circular Conical Dielectric Waveguide**
 Pirapaharan Kandasamy and Nobuo Okamoto
 Kinki University, Japan
- 11:45 **The Diffraction of Gaussian Beam Wave from the Fourier Grating**
 Makoto Ohki ⁽¹⁾, Haruo Sakurai ⁽²⁾, Kuniyuki Motojima ⁽¹⁾, and Shogo Kozaki ⁽¹⁾
 (1) Gunma University, Japan
 (2) Gunma College of Technology, Japan
- 12:00 **Validity of the Periodic Boundary Condition in the Analysis of Single-Pass Electron Beam Devices**
 S. Hirosaka, A. Hirata, and T. Shiozawa
 Osaka University, Japan
- 12:15 **Method of Correlation Function for Analyzing Cross-Sensitivity of Strain and Temperature in Fiber Grating Sensors**
 Weigang Zhang, Xiaoyi Dong, Dejun Feng, Zhiguo Liu, and Qida Zhao
 Nankai University, China
- 12:30 **A Channel Selective Add/Drop Multiplexer with Tunable Fiber Bragg Grating**
 Dejun Feng, Weigang Zhang, Zixiong Qin, Guiyun Kai, Zhiguo Liu, and Xiaoyi Dong
 Nankai University, China
- 12:45 **Lunch**
- 14:00~17:00 **Technical Tour**

Time Domain Analysis and Guided Waves

Wednesday, December 6, 08:45~10:40 AM, Room B

Co-Chairs : Masaaki Imai, Muroran Institute of Technology, Japan

Chi Hou Chan, City University of Hong Kong, China

- 08:45 **Reduction of Mode-Coupling and Single-Mode Excitation in Multimode Fibers by Use of Ultra-Short Optical Pulses**
 Yuichi Suzuki, Shinya Sato, and Masaaki Imai
 Muroran Institute of Technology, Japan
- 09:00 **All-Optical Switching and Coupling of Femtosecond Pulses in a Nonlinear Fused-Tapered Fiber Coupler**
 Kazutoshi Andoh ⁽¹⁾, Masaaki Imai ⁽¹⁾, and Jun Nakai ⁽²⁾
 (1) Muroran Institute of Technology, Japan
 (2) Presently, Toshiba Corporation, Japan
- 09:15 **Time-Domain Green's Function for Microstrip Structures (invited)**
 Y. Xu , M. Y. Xia, and C. H. Chan
 Wireless Communications Research Center, City University of Hong Kong, China
- 09:40 **Space-Time Impulse Responses of Electromagnetic Backscatterings of Beam Waves for Sensing**
 Yasumitsu Miyazaki
 Toyohashi University of Technology, Japan

- 09:55 **Leakage Loss Reduction of Conductor Backed Coplanar Waveguide Backed with Dielectric Sheets**
Masashi Hotta, Kentaro Kisaka, Tomoyuki Inoue, and Mitsuo Hano
Yamaguchi University, Japan
- 10:10 **Growth Characteristics of a Cherenkov Laser Filled with Inhomogeneous Background Plasma**
Tipyada Thumvongskul and Toshiyuki Shiozawa
Osaka University, Japan
- 10:25 **Time Domain Inverse Scattering of Two Conducting Cylinders Buried in a Homogeneous Half-Space**
Takato Kudou and Yuji Todaka
Oita University, Japan
- 10:40 **Coffee Break**

Optical Components (3)

Wednesday, December 6, 11:00~12:40 AM, Room B

Co-Chairs : Tsuneki Yamasaki, Nihon University, Japan

Deming Wu, Peking University, China

- 11:00 **Research on Bidirectional OADMs (BADMs) Based on AWGs** (invited)
Deming Wu, Henghua Deng, and Anshi Xu
Peking University, China
- 11:25 **Optical Pulse Generation and Demultiplexing with Improved Extinction Ratio and Duty Cycle Using Single Electroabsorption Modulator** (invited)
Jian Wu, Fan Zhang, Peng Zuo, Jintong Lin and Peida Ye
Beijing University of Posts & Telecom., China
- 11:40 **Fabrication and Characterization of Er-Thermally-Diffused Ti:LiNbO₃ Waveguide Lasers**
M. Fujimura, K. Matsuda, T. Kodama, and H. Nishihara
Osaka University, Japan
- 11:55 **Development of Method for Surface Measurement Using Photorefractive Media**
Takashi Kuroiwa, Tsuneki Yamasaki, Mitsuhiro Matsubara
Nihon University, Japan
- 12:10 **Computer-Generated Holograms for Recording Chirped Fiber Grating Corrugations**
Chen Heming, Hu Haiying, Shi Weihua, and Jia Xiaobin
Nanjing University of Posts and Telecommunications, China
- 12:25 **Photoconductive Si_{1-x}Gex Detector Fabricated on SiON/SiO₂/Si**
Zhuang Wanru ⁽¹⁾, Huang Yongzhen ⁽¹⁾, Zheng Youdou ⁽²⁾,
Zhu Shunming ⁽²⁾, Liu Xiabing ⁽²⁾, and Han Ping ⁽²⁾
(1) Institute of Semiconductors, Chinese Academy of Sciences, China
(2) Nanjing University, China
- 12:40 **Lunch**
- 14:00~17:00 **Technical Tour**