

AES 11th Regional Convention, Tokyo  
"Audio Engineering in the New Century"

**July 7-9, 2003**  
**Science Museum, Tokyo**

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**Audio Engineering Society Japan Section**  
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PP0	Monday, July 7 10:40-12:10 Science hall <b>Keynote speech</b>	The enduring dream of the Surround Sound  <b>Isao Tomita, Composer</b>  Mr. Isao Tomita, who has been very active in composing music for synthesizer such as "Moog" since 30 years ago, will talk about his musical expression with Surround Sound. He will also demonstrate some of his music pieces including "Genji-monogatari" and "Planets", with their making.
PP1	Monday, July 7 14:00-14:20 Science hall <b>Multichannel Audio 1</b> Chair: <b>Kazuo Ishino</b>	14:00-14:20 <b>The Production of 5.1ch Surround Documentary</b> <i>Kaoru Itobayashi, NHK</i> 14:20-14:40 <b>5.1 Surround Live Transmission in NHK Sports Programs</b> <i>Hiroki Sueishi, NHK</i> 14:40-15:00 <b>Broadcast the live program with 5.1ch surround system—"Japan series" Professional baseball game report—</b> <i>Satoshi Inoue, TV Asahi Production</i> 15:00-15:20 <b>POPJAM-OSAKA Castle Hall 5.1 Surround Broadcasting</b> <i>Ryota Ono, NHK</i>
PP2	Monday, July 7 14:25-16:45 Science hall <b>Multichannel Audio 2</b> Chair: <b>Kazuho Ono</b>	15:25-15:45 <b>Low Frequency Reproduction of Multichannel Audio:from Aspect of Group Delay</b> <i>Shintaro Hosoi, Pioneer corp.</i> 15:45-16:05 <b>Architectural designing of 5.1 a Surround Sound Studio</b> <i>Shin-ichi Oda, NHK</i> 16:05-16:25 <b>The design of the film sound studio complex at Ramoji Filme City in India</b> <i>Sam Toyoshima, Yokkaichi University/ADG UK</i> 16:25-16:45 <b>On The Loudspeaker Layouts For Multichannel Studios</b> <i>Masataka Nakahara, SONA corp./Kyushu Institute of Design</i>
PP3	Tuesday, July 8 9:00-10:00 Room 6 <b>Architectural Acoustics and Room Acoustics 1</b> Chair: <b>Masaki Morimoto</b>	9:00-9:20 <b>Study of sound tuning using Sound field Simulation &amp; Multi point Mic. Measurement system</b> <i>Kumiaki Osawa, Matsushita Electrical Industrial Co.,Ltd</i> 9:20-9:40 <b>Acoustic intensity measurement in the sound pnce with an obstacle</b> <i>Kazuyuki Yamada, Shibaura Institute of Technology</i> 9:40-10:00 <b>Diffuseness and the sound pressure distribution in an enclosure</b> <i>Hisaharu Suzuki, Kyushu Institute of Design</i>
PP4	Tuesday, July 8 10:05-11:05 Room 6 <b>Architectural Acoustics and Room Acoustics 2</b> Chair: <b>Matsumi Takeuchi</b>	10:05-10:25 <b>The design concept of new Mastering rooms Mixer's Lab and thoughts on the future of the Mastering</b> <i>Isao Kikuchi, Mixer's Lab Ltd.</i> 10:25-10:45 <b>The Room as an Instrument An interactive relaxation and acoustic inspiration space</b> <i>Jeffrey Jousan, CrossWire</i> 10:45-11:05 <b>The sound system in Kani Public Arts Center</b> <i>Shinnichi Suzuki, YAMAHA Sound Technologies Inc.</i>
PP5	Tuesday, July 8 12:00-13:20 Room 6 <b>High-Resolution Audio 1</b> Chair: <b>Nobuo Koizumi</b>	12:00-12:20 <b>Scalable lossless coding of high sampling rate audio signals</b> <i>Takehiro Moriya, NTT Cyber Space Laboratories</i> 12:20-12:40 <b>Sampling jitter observed in digital audio products</b> <i>Akira Nishimura, Tokyo University of Information Sciences</i> 12:40-13:00 <b>The relationship Between Digital Signal Jitter and Loss of Information of High Order Sensations</b> <i>Minoru Mitsui, Japan Advanced Institute of Science and Technology</i> 13:00-13:20 <b>Super Wide-Frequency Range Microphone</b> <i>Yasuhiko Kanno, Sanken Microphone CO.,Ltd</i>
PP6	Tuesday, July 8 13:25-14:25 Room 6 <b>High-Resolution Audio 1</b> Chair: <b>Kaoru Ashihara</b>	13:25-13:45 <b>The influence of the reproduced sound of the wave with an ultrasonic wave on the human pysics and psychology</b> <i>Michinori Ogawa, Nihon Univ.</i> 13:45-14:05 <b>Psychological study on the hypersonic effect</b> <i>Tsutomu Ohashi, ATR Human Information Science Laboratories</i> 14:05-14:25 <b>Perceptual Discrimination between Musical Sounds with and without Very High Frequency Components</b> <i>Toshiyuki Nishiguchi, NHK</i>
PP7	Tuesday, July 8 14:35-16:15 Room 6 <b>Psychoacoustics, Perception and Listening Test</b> Chair: <b>Akira Nishimura</b>	14:35-14:55 <b>The differences of hearing level for movies between youth group and old age group on standard "ISO2969"</b> <i>Hajime Takagi, Tokyo T.V.Center Co., Ltd</i> 14:55-15:15 <b>Relation between physical distortions and preferences of timbre on music reproduction</b> <i>Toshiyuki Ishikawa, Shinsyu University</i> 15:15-15:35 <b>On the method to compensate for sound quality with a car audio equalizer</b> <i>Kenji Ozawa, University of Yamanashi</i> 15:35-15:55 <b>A sound field control method based on an objective measure of spatial impression</b> <i>Yoshiki Ohta, Pioneer corp.</i> 15:55-16:15 <b>Evaluation of Sound Field Perception by Psychological Scale based on Sound Field Expressing Words for Virtual Audio Space Sharing</b> <i>Kaori Miyazaki, Fukuoka Institute of Technology</i>
PP8	Wednesday, July 9 9:20-10:40 Room 6 <b>Transducers, Instrumentation and Measurement 1</b> Chair: <b>Masakazu Iwaki</b>	9:00-9:20 <b>Geometrical Stiffness of Loudspeaker Cones</b> <i>Peter Larsen, LOUDSOFT</i> 9:20-9:40 <b>Assessing Large Signal Performance of Transducers</b> <i>Wolfgang Klippel, Klippel GmbH</i> 9:40-10:00 <b>Ideal Frequency Response for Design of Headphones</b> <i>Yoshinobu Kajikawa, Kansai University</i> 10:00-10:20 <b>Construction of Software of Support Design for Compact Acoustic Systems</b> <i>Makoto Kajiwara, Kansai University</i> 10:20-10:40 <b>Effect of acoustical confusion for frequency characteristics of earphones and headphones</b> <i>Akihiko Yamada, University of Electrol-Communications</i>
PP9	Wednesday, July 9 10:45-12:05 Room 6 <b>Transducers, Instrumentation and Measurement 2</b> Chair: <b>Shinji Koyano</b>	10:45-11:05 <b>Transducer characteristic of rectangular loudspeaker by using a tuck shape PVDF bimorph</b> <i>Kaori Matsushita, Shibaura Institute of Technology</i> 11:05-11:25 <b>Characteristics of diaphragm for electret condenser microphones</b> <i>Manabu Michishita, Shibaura Institute of Technology</i> 11:25-11:45 <b>Testing Challenges in Personal Computer Audio Devices</b> <i>Wayne Jones, Audio Precision Inc</i> 11:45-12:05 <b>A Stereo Sound Reproduction System with Wide Listening Area by Using Directional Array Speakers</b> <i>Kiyoshi Nishikawa, Kanazawa University</i>
PP10	Wednesday, July 9 13:00-14:20 Room 6 <b>Signal Processing</b> Chair: <b>Masato Miyoshi</b>	13:00-13:20 <b>Virtual Reproduction of Bass Sound for Small Loudspeaker</b> <i>Naoyuki Katou, Matsushita Electrical Industrial Co.,Ltd</i> 13:20-13:40 <b>Design method of the filter block with multimodal transfer function(in designing a graphic equalizer)</b> <i>Akinori Ohnuki, AccuphaseLaboratory, Inc.</i> 13:40-14:00 <b>A new watermarking technique using Trellis Coded Multiple Phase Shift Keying</b> <i>Akira Takahashi, Tohoku University</i> 14:00-14:20 <b>Body operation control for Scanned Synthesis</b> <i>Yoichi Nagashima, Shizuoka University of Art and Culture/ASL</i>
PP11	Wednesday, July 9 14:30-16:10 Room 6 <b>Audio Transmission and Audio Networking</b> Chair: <b>Toshiaki Setogawa</b>	14:30-14:50 <b>Better Audio Balance Broadcasting service for elderly people -Back Ground Sound Levels of Television Programs for Esy Listening-</b> <i>Hiroaki Ohtsuka, NHK</i> 14:50-15:10 <b>Digital file distribution for radio program</b> <i>Shigeru Aoki, TokyoFM Broadcasting</i> 15:10-15:30 <b>The transmission system of 1 bit audio using OPi.LINK</b> <i>Takatoshi Mizoguchi, Sharp Corporation</i> 15:30-15:50 <b>An application of mLAN® for digital audio network: Yamaha hall</b> <i>Jun-ichi Fujimori, Yamaha Corporation</i> 15:50-16:10 <b>Archival Server using optical disk library</b> <i>Takaaki Ueno, Teikyuu Heisei University</i>

WS1	Monday, July 7 12:30-13:30 Science hall Chair: <b>Toshio Kikuta</b> Institute of Sound Techniques	<b>Next-generation Optical Disc Systems --- Technology and Future Trends</b>  Technical presentations are made on the two next-generation optical disc system Specifications, AOD (Advanced Optical Disc) and Blue-ray Disc.	Panelists: <b>Hisashi Yamada</b> , Toshiba, DVD-Forum TCG, <b>Takeshi Maeda</b> , Hitachi Ltd.
WS2	Monday, July 7 12:30-14:30 Room 6 Chair: <b>Kimio Hamasaki</b> Japan Broadcasting Corporation	<b>Sound Systems for Digital Cinema Theatres</b>  As the cinema industry faces the wave of digital, the audio engineers need to get digital technologies for not only production but also sound systems in cinema theatres. This workshop will present the new digital cinema sound system with the demonstration and discussion of leading industry professionals from the areas of research, production, operation and BOSE engineers for cinema sound.	Panelists: <b>Hiroshi Inokuchi</b> TJOY Co., Ltd., <b>Akihiro Sato</b> , TJOY Co., Ltd., <b>Suminobu Hamada</b> , Wonder Station Inc., <b>Akira Mochimaru</b> , Bose Kabushiki Kaisha, <b>Joji Kuriyama</b> , Bose Kabushiki Kaisha
WS3	Monday, July 7 14:40-17:30 Room 6 Chair: <b>Kazutsugu Uchimura</b> Japan Broadcasting Corporation	<b>The forefront of Digital Console</b>  There are many kind of Digital consoles in the market, such as large format console for the production facilities to small format console for the location at the moment. Each manufacturer explains their features, key points and their future.	Panelists: <b>Shinichi Noguchi</b> Solid State Logic Japan K.K., <b>Shigeki Takahashi</b> , YAMAHA Co., Ltd., <b>Takumi Mizobuchi</b> OTARITEC Co., Ltd., <b>Jun Yamazaki</b> TAMURA CORPORATION, <b>Masayoshi Kurosawa</b> , Fairlight Japan Inc., <b>Masayuki Hibino</b> Matsushita Electric Industrial Co., Ltd., <b>Koji Ukibe</b> , Euphonix Japan
WS4	Monday, July 7 12:00-13:25 Room 11 Chair: <b>Kazutsugu Uchimura</b> Japan Broadcasting Corporation	<b>Practical Guide for Surround Production (Music Recording)</b>  There is 3 days session for Surround Production. How to set up loudspeakers, real surround production, mixing techniques, explained by Music engineer, Post Production engineer, Broadcast engineer. First day: Surround Production for Music recording.	Panelist: <b>Akira Fukada</b> , Japan Broadcasting Corporation
WS5	Monday, July 7 13:30-14:30 Room 11	<b>Open from this October! Technical format and Program service for Digital Radio Broadcasting</b>  We are going to get started digital radio broadcasting in Tokyo and Osaka, Japan in October this year. We will show you around the essence and characteristics of the broadcasting, by talking about the technical format, program services, and some information about development of receivers.	Presenters: <b>Katsuro Ohmi</b> , Digital Radio Promotion Association, <b>Masayuki Odaka</b> , Digital Radio Promotion Association
WS6	Tuesday, July 8 9:00-10:55 Science hall Chair: <b>Akira Fukada</b> Japan Broadcasting Corporation	<b>The present situation of Hi-Resolution Recording</b>  We would like to discuss the items focusing on the present recording situation of Hi-resolution audio include DSD and Hi-bit, Hi-sampling environment.	Panelists: <b>Atsuo Fujita</b> , TimeLoud, <b>Muneyasu Maeda</b> , Sony corporation Home Network Company, <b>Yoshihiro Mori</b> , Matsushita Electric Industrial Co., Ltd., DVD-Forum WG4
WS7	Tuesday, July 8 11:00-12:00 Science hall Chair: <b>Hiroaki Suzuki</b> JVC, DVD-Forum WG4	<b>DVD-Audio Recording Specifications and DVD-Audio Update</b>  The status quo of DVD-Audio and DVD-AR, the new DVD Family Specification, will be presented.	Panelists: <b>Hiroaki Suzuki</b> JVC, DVD-Forum WG4, <b>Masatoshi Shimbo</b> , Matsushita Electric Industrial Co., Ltd., DVD-Forum WG4
WS8	Tuesday, July 8 12:10-13:40 Science hall Chair: <b>Kazutaka Someya</b> Sony PCL Inc.	<b>Surround audio for game media</b>  The remarkable development of software and hardware for surround audio is founded in game media. This work shop will reveal it through various demonstrations. The demonstrations for hardware is interactive surround audio with 'Dolby' and 'dts'. The demonstrations for software come from the sound track of 'FINAL FANTASY'.	Panelists: <b>Hisayuki Nakayama</b> Dolby Japan branch, <b>Atsuko Nakayama</b> DTS Japan Office, <b>Eiji Nakamura</b> Red A.J. Sound, <b>Chiharu Minekawa</b> SQUARE ENIX CO., LTD
WS9	Tuesday, July 8 13:50-15:50 Science hall Chair: <b>Kenji Sakaizawa</b> Electori co., Ltd.	<b>The Physics and Psycho-Acoustics of Surround Recording</b>  A concrete and easy explanation of important hint to succeed Surround Recording based on Technical ground of Physics and Psycho acoustics.	Presenter: <b>David Griesinger</b> , Lexicon inc. Interpreter: <b>Kimio Hamasaki</b> Japan Broadcasting Corporation
WS10	Tuesday, July 8 16:00-18:00 Science hall Chair: <b>Tetsuya Imai</b> IMAI & CO.,LTD.	<b>Advanced Microphone Technique in Europe --- From Basic to Surround sound</b>  Mr. Jorg Wuttke, SCHALLTECHNIK, will talk about the microphone technique of surrounding recording and all the Schoeps' microphones.	Presenter: <b>Joerg Wuttke</b> , SCHOEPS Interpreter: <b>Kimio Hamasaki</b> Japan Broadcasting Corporation
WS11	Tuesday, July 8 9:00-10:25 Room 11 Chair: <b>Kazutsugu Uchimura</b> Japan Broadcasting Corporation	<b>Practical Guide for Surround Production (Postproduction)</b>  There are 3 days sessions for Surround Production. How to set up loudspeakers, real surround production, mixing techniques, explained by Music engineer, Post Production engineer, Broadcast engineer. Second day: Multi channel production and experience in Post Production.	Panelist: <b>Kazutaka Someya</b> Sony PCL Inc.
WS12	Tuesday, July 8 9:00-10:25 Room 1 Chair: <b>Hirokazu Nakashima</b> TBS Radio & Communications, Inc.	<b>The existing state and the point of BWF format</b>  We would like to explain BWF-J format and demonstrate the compatibility between some MO-disk recorders based on BWF-J format. Chair: Hirokazu Nakashima : TBS Radio & Communications, Inc. Division of Technology	Panelists: <b>Masatoshi Maruya</b> , JPPA BWF-J WG Chairman, Otaritec Corp., <b>Tatsuya Okamoto</b> , Japan Broadcasting Corporation, <b>Hiroshi Miura</b> , Nippon Broadcasting System, Inc., <b>Tadahiko Sakamoto</b> , DENON Ltd., <b>Ayafumi Taniji</b> Kowa Company, Ltd., <b>Nagayuki Koide</b> , Otari Inc.
WS13	Tuesday, July 8 10:30-12:30 Room 1 Chair: <b>Takeo Yamamoto</b> Vice-Chair of the AES TC on HRA	<b>Production of Multichannel Music with Better Surround Sound Effect</b>  The workshop is a chance to discuss how we can produce multichannel music with better surround sound effect.	Panelists: <b>Masayuki Morimoto</b> , Kobe University, <b>Setsu Komiya</b> , Japan Broadcasting Corporation, <b>Kamiyama</b> , Composer/Arranger, <b>Akira Fukada</b> , Japan Broadcasting Corporation, <b>Kimio Hamasaki</b> Japan Broadcasting Corporation, <b>Hideo Takada</b> , Victor Entertainment, Inc.
WS14	Wednesday, July 9 9:30-11:30 Science hall Chair: <b>Masaki Sawaguchi</b> Japan Broadcasting Corporation	<b>Desktop production hands-on seminar</b>  Primary, we'll introduce Digital Audio Workstation history and latest information. Next, demonstrate on Nuendo (Steinberg), Pyramix (Merging), ProTools-HD (Digidesign) each 25 minutes.	Panelists: <b>Takahiko Yamamoto</b> TAC System, INC., <b>Toshiro Kobayashi</b> Avid Japan K.K., <b>Satoshi Yanase</b> DSP Japan LTD., <b>Tsuyoshi Yasukawa</b> Steinberg Japan INC.
WS15	Wednesday, July 9 12:00-14:00 Science hall Chair: <b>Kiyoshi Tsujimoto</b> NHK Technical Service Inc	<b>Better Audio Balance Broadcasting service for Audience</b>  In this workshop, technical problems with easy listening to sound broadcasting programs will be discussed, introducing better audio balance broadcasting for elderly listeners, and also sound level monitoring system using the loudness level meter for better balance of average loudness level among various kinds of program.	Panelists: <b>Hidetatsu Nkamamura</b> Japan Broadcasting Corporation, <b>Thomas Lund</b> TC Electronic, <b>Yoshiaki Matsumoto</b> TC Electronic Japan, <b>Koichi Kurozumi</b> Japan Broadcasting Corporation, <b>Hideaki Hoshi</b> Yamaki Electric Corporation
WS16	Wednesday, July 9 14:30-16:30 Science hall Chair: <b>Kazutaka Someya</b> Sony PCL Inc.	<b>Audio production in HD24P</b>  HD24P has become popular in film creation in Japan. Audio production in HD24P, however, has involved various problems. This workshop reports on the recent states of audio production in HD24P and suggests on it.	Panelists: <b>Yoshinori Susa</b> , Sony PCL Inc., <b>Shin Asada</b> , Progressive Pictures Co., Ltd.
WS17	Wednesday, July 9 9:00-10:25 Room 11 Chair: <b>Kazutsugu Uchimura</b> Japan Broadcasting Corporation	<b>Practical Guide for Surround Production (Live Broadcasting)</b>  There are 3 days sessions for Surround Production. How to set up loudspeakers, real surround production, mixing techniques, explained by Music engineer, Post Production engineer, Broadcast engineer. Third day: Surround Production for Broadcast, especially outside broadcast.	Panelist: <b>Satoshi Inoue</b> , TV Asahi Productions
WS18	Wednesday, July 9 10:30-12:30 Room 11 Chair: <b>Masataka Nakahara</b> SONA Corporation	<b>Approach to the successful encoding for surround media</b>  Know-how of the encoding operations for Dolby AC-3, dts and MPEG-2AAC is presented. Operating processes, handling of meta-data and its effects on the playback sound, and encoding systems are lectured with demonstrations.	Panelists: <b>Hisayuki Nakayama</b> Dolby Japan branch, <b>Jeff Levison</b> , Digital Theater Systems, Inc., <b>Hideo Irimajiri</b> Mainichi Broadcasting System, Inc., <b>Hirochika Maegaki</b> YAMAHA Corporation
WS19	Wednesday, July 9 10:00-11:30 Room 11 Chair: <b>Tadashi Morikawa</b> Matsushita Electric Industrial Co., Ltd	<b>Trend of Digital Signal Transmission for Audio</b>  Signal transmission format for audio have been changed from Analog to Digital with the advance of digital audio system. And now, we have various format of it. In this session, we'll explain and discuss three digital signal transmission systems, "Digital Radio Microphone", "CobraNet" and "mLAN".	Panelists: <b>Sadahiro Gomi</b> Matsushita Electric Industrial Co., Ltd., <b>Taku Nishikori</b> YAMAHA Co., Ltd., <b>Shigeki Takahashi</b> YAMAHA Co., Ltd., <b>Yasutaka Kuribayashi</b> YAMAHA Co., Ltd.

PD1	Monday, July 7 14:30-17:30 Room 11  Presented by <b>TOYO Corporation</b>	<b>(1) Testing Challenges in Personal Computer Audio Devices</b> <b>(2) Assessing Large Signal Performance of Transducer</b> <b>(3) Geometrical Stiffness of Loudspeaker Cones</b>  (1) The personal computer is a highly sophisticated interactive environment that is much more complex than a conventional dedicated home audio device, leading to new problem areas. We will address conventional audio measurements, but will extend these to new depths and address the unique difficulties the PC environment adds to these tests. (2) New measurement and simulation techniques have been developed for the large signal domain considering nonlinear, thermal and other time-variant mechanisms. Large signal parameters reveal the cause of the distortion and make numerical prediction of the behavior for any artificial or natural stimulus possible. This information is required for systematic diagnostic and optimal system design considering both objective and subjective constraints. (3) The frequency response of a loudspeaker cone is affected by two mainfactors: Material Parameters and Geometry. While the first may be generally understood, the inherent stiffness due to the basic geometry is the subject of this study. The cone break-up behavior and frequency response is shown to be strongly dependant on the Geometrical Stiffness of the Cone, which should therefore be considered a very important design parameter.	Presenters: <b>Shinji Takatsuki</b> , Toyo Corp., <b>Wolfgang Klippel</b> , Klipple, <b>Peter Larsen</b> , Loudsoft
PD2	Monday, July 7 12:00-17:00 Room 1  Presented by <b>Euphonix Japan,</b> <b>Steinberg Japan,</b> <b>TC Electronic Japan</b>	<b>System Integration of Surround Sound Mixing System ---Part 1</b>  First day, Surround Sound Mixing--the guest speaker is Isao Tomita who has been composed and created a new field of modern art of music including Synthesized Sound Production. Mr. Tomita introduces his magic of creating new DVD-A 4.1 album of "The Planet 2003" He will also introduce his other works. Supported by Columbia Music Entertainment.	Presenter: <b>Isao Tomita</b> , Composer
PD3	Tuesday, July 8 10:30-11:30 Room 11  Presented by <b>Apple Japan, Inc.</b>	<b>Pro-audio solutions by Mac OS X</b>  Supported by Tac system, Inc.	Presenter: <b>Tatsuya Konishi</b> , Apple Japan, Inc.
PD4	Tuesday, July 8 11:30-12:30 Room 11  Presented by <b>Digidesign Japan</b>	<b>Post-production works using ProTools with Waves plugins</b>  Supported by Tac system, Inc.	Presenters: <b>Hidehiko Ohno</b> , Sound engineer, <b>Kobayashi</b> , Digidesign Japan
PD5	Tuesday, July 8 12:30-13:30 Room 11  Presented by <b>TAC System, INC.</b>	<b>Backup and Network possibility for Digital Audio Workstation</b>	Presenter: <b>Takahiko Yamamoto</b> , Tac System, Inc.
PD6	Tuesday, July 8 14:00-15:00 Room 11  Presented by <b>YAMAHA Corporation</b>	<b>Yamaha's brand new algorithm for the surround effects for post-productions based on the modeling technology</b>	Presenter: <b>Akio Takahashi</b> , Yamaha Corp., <b>Toshifumi Kunimoto</b> , Yamaha Corp.
PD7	Tuesday, July 8 15:00-16:00 Room 11  Presented by <b>YAMAHA Corporation</b>	<b>Practical seminar of the loudspeaker adjustments for surround monitoring using monitoring functions of Yamaha's DM2000</b>  Keys of the loudspeaker setting for surround monitoring, that are loudspeaker placement, loudspeaker response, level adjustment, delay adjustment etc. are lectured practically. The presenter adjusts the responses of loudspeakers that are placed tentatively at a seminar room, and makes them be a professional monitoring environment using a SPL meter, RTA and DM2000.	Presenter: <b>Masataka Nakahara</b> , SONA Corp.
PD8	Tuesday, July 8 16:00-17:00 Room 11  Presented by <b>SONA Corporation</b>	<b>The features of M&amp;K professional loudspeakers and surround sound monitoring environment</b>  The features of M&K Professional loudspeakers that top-class engineers recognize as the world standard monitor and its demonstrations will be shown. The layout techniques for surround monitors will be also reported.	Presenter: <b>Shin-ichi Ueoka</b> , SONA Corp.
PD9	Tuesday, July 8 17:00-18:00 Room 11  Presented by <b>SONA Corporation</b>	<b>What is THX pm3 ?</b> <b>---the effective design way for a professional multichannel studio</b>  The outline of THX pm3 (Professional Multi-channel Mixing & Monitoring) which can give the total solution of studio design techniques to multichannel productions will be introduced.	Presenter: <b>Atsuro Ikeda</b> , SONA Corp.
PD10	Tuesday, July 8 13:00-18:00 Room 1  Presented by <b>Euphonix Japan,</b> <b>Steinberg Japan,</b> <b>TC Electronic Japan</b>	<b>System Integration of Surround Sound Mixing System ---Part 2</b>  Second day, the guest speaker is Yoichi Namekata, Sound Supervisor and formally, chief sound engineer and producer at Toshiba EMI. He will present the new technology of system integration with large-scale digital console and DAW. Using AES31 file compatibility between R1/Transfer Station and Nuendo. Supported by Toshiba EMI	Presenter: <b>Yoichi Namekata</b> , Sound supervisor
PD11	Wednesday, July 9 13:00-14:00 Room 11  Presented by <b>Pastral Symphony Company, Ltd.</b>	<b>High Resolution MICROPURE™ Professional Speaker System for Studio Monitors and Home Theatres</b>  Slim column type speaker system called "Micropure Panel Speaker" having rich bass and low distortion is lectured and demonstrated by Sakuji Fukuda, the developer, and by Makoto Imamura who is currently using the system in his studios for authoring sound for picture programs. The system features a unique speaker configuration that the tweeter and woofer are indirectly mounted on the front panel providing a thin air gap. This minimizes undesirable panel vibrations and a pressure buildup inside the enclosure and allows to radiate a controlled amount of sound generated from the back of the diaphragm. Micropure Speaker System is ideal for recording studios and home theaters.	Presenters: <b>Sakuji Fukuda</b> , Pastral Symphony Company, Ltd., <b>Makoto Imamura</b> , Ichinyo Company Ltd.
PD12	Wednesday, July 9 14:00-15:00 Room 11  Presented by <b>OTARITEC Corporation</b>	<b>Bass management in Surround monitoring by GENELEC</b>  Brief explanation about "Bass management in Surround monitoring", including theory and practice offered by GENELEC.	Presenters: <b>Takumi Mizobuchi</b> , Otaritec Corp., <b>Hisao Ishii</b> , Otaritec Corp.
PD13	Wednesday, July 9 15:00-17:00 Room 11  Presented by <b>Timeload</b>	<b>The Real-time Noise Reduction and Restoration System</b>  Gordon Reid, the director of CEDAR Audio, is going to have a product presentation for the new real-time noise reduction and restoration system "CEDAR Cambridge".	Presenter: <b>Gordon Reid</b> , CEDAR Audio
PD14	Wednesday, July 9 12:00-17:00 Science hall  Presented by <b>Euphonix Japan,</b> <b>Steinberg Japan,</b> <b>TC Electronic Japan</b>	<b>System Integration of Surround Sound Mixing System ---Part 3</b>  Third day, the guest speaker is Hirokazu Tokieda, Chief Engineer of Columbia Music Entertainment and he will mix multitrack live recording down to 5.1 surround sound. R1 Multitrack recorder was used to record live concert of Japan's best Jazz Trio, Takeshi Inomata (Drums), Norio Maeda (Piano) & Yasuo Arakawa (Bass). It was recorded by Columbia Music Entertainment in multitrack surround sound at 24Bit 96KHz. Supported by Columbia Music Entertainment. Permission to use recorded material granted by RCC Sticks.	Presenter: <b>Kazuhiro Tokieda</b> , Columbia Music Entertainment

**Room 8, Room 9**  
**Monday, July 7 10:00-18:00**

**Tuesday, July 8 10:00-18:00**

**Wednesday, July 9 10:00-17:00**

FLOOR MAP			<p><b>NIHON ELECTRO HARMONIX K.K.</b></p> <p>EX10 *Universal Audio LA-2A, 1176LN, 2-610, M610, 2108, 6176 *Antares ATR-1a, AVP-1</p>
	EX1	<p><b>IMAI &amp; COMPANY, LTD.</b></p> <p>Schalltechnik(Germany) SCHOEPS Microphone</p>	<p><b>OTARITEC CORP.</b></p> <p>EX11 OTARI DA-10 2ch MO Disk Recorder, LAWO Zirkon Digital On-Air Mixer GENELEC 7060A Subwoofer System, jungner audio ORION Multichannel Digital Dynamics Processor SADHE SACD Mastering Editor, APHEX MODEL1788 8ch Remote Mic Preamp KTA DP224,DP226 Speaker Management System</p>
	EX2	<p><b>STEINBERG JAPAN INC.</b></p> <p>Nuendo2.0 Media Production System</p>	<p><b>DSP JAPAN LTD.</b></p> <p>EX12 *Pyramix Virtual Studio, Merging Technologies S.A. (Switzerland) Pyramix Virtual is a DaW that integrates the functions of digital audio mixing, Effects Processing, Recording, Editing and Mastering. *VMotion, AV Media Pty, Ltd. (Australia) VMotion is a video module designed to operate with a variety of digital audio workstations and external 9pin devices. *ADC8 MKIV, DAC8 MKIV, EMM Labs Inc. (Canada) 8ch A/D (ADC8), DA (DAC8) and D/D (ADC8, DAC8)converter for DSD (128FS/5.6MHz) and PCM (24-bit/96kHz) formats.</p>
	EX3	<p><b>MTS CO., LTD.</b></p> <p>Transmitter and Reseiver for FM Radio Station</p>	<p><b>BOSE KABUSHIKI KAISHA</b></p> <p>EX13 Bose Digital Audio Network System Bose Loudspeakers, Power Amplifiers for Professional</p>
	EX4	<p><b>TOYO CORP.</b></p> <p>Audio Analyzer ,Audio Peakmeter ,Loud Speaker Analyze System</p>	<p><b>SANKEN MICROPHONE CO., LTD</b></p> <p>EX14 Very short(180mm) Shot-Gun microphone CS-1 Super wide frequency microphone till 100kHz, CO-100K Unique dual cardioid condenser microphones in one body,especially for "Surround recording" CUW-180 Easy level upper for dynamic microphones, using48V phantom power from mixer side, HAD-48</p>
	EX5	<p><b>SONY MARKETING (JAPAN) INC.</b></p> <p>On the Sony stand, Sony will show DMX-P01 the industry's and world's first digital portable mixer for ENG, ECM-88 miniature electret condenser lavalier microphone employing a dual diaphragm structure to eliminate inherent and handling noise, DMX-R100 digital mixing console featuring 32-bit floating-point processing to provide extremely high sound quality. Those that are applied Sony's unique audio technology will be introduced.</p>	<p><b>SOLID STATE LOGIC JAPAN K.K.</b></p> <p>EX15 Solid State Logic Introduces new Digital products C100 Digital Broadcast Console &amp; C200 Digital Production Console.</p>
	EX6	<p><b>TAC SYSTEM INC.</b></p> <p>Protocols system/Hard Disk System/Network System</p>	<p><b>YAMAHA CORP.</b></p> <p>EX16 Digital Production Console DM2000,DM1000 Digital Mixing Console 02R96.01V96 Powered Monitor Speaker MSP10STUDIO etc</p>
	EX7	<p><b>ETANI ELECTRONICS CO., LTD.</b></p> <p>Good sound by digital signal processing. Exhibit various sound measurements and the technology of sound creation by convolution, which has the ability to simultaneously process frequency characteristics and wavefront.</p>	<p><b>BALLAD CO., LTD</b></p> <p>EX17 Musikelectronic - Studio Monitor Speaker Soundelux - Studio Microphone T.H.E - Studio Microphone Altec Lansing - SR Loudspeaker System</p>
	EX8	<p><b>SONA CORPORATION</b></p> <p>Examples of studio design works that SONA totally designed including acoustics, architectures and monitor alignments will be introduced. THX pm3 program which is one of the most effective ways for multichannel studio design, and M&amp;K professional loudspeakers will be also shown.</p>	<p><b>MARANTZ JAPAN, INC</b></p> <p>EX18</p>
	EX9	<p><b>KAJIMA, Taguchi</b></p> <p>Optimal Source Distribution system for 3D sound Loudspeaker systems for public address Freight cases</p>	<p><b>HIBINO CORP.</b></p> <p>EX19 Demonstrate of a instant replay system.</p>
		<p><b>TIMELOAD, LTD</b></p> <p>EX20 dcs, Ctenex, CEDAR, Contour</p>	
		<p><b>Fairlight Japan Inc</b></p> <p>EX21 FairWorks Group will display the complete DREAM series based on a next-generation QDC engine. Also on display will be a new Mini QDC Rack,V-motion, and Fundamental Acoustic Research speaker. Please visit our booth No.21 and look for the DREAM Demo Bus.</p>	
		<p><b>DTS</b></p> <p>EX22 DTS Professional Encoder CAE-5 ( proto type ) DTS Monitor Decoder CAD-5 ( Proto type )</p>	