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2-5 MARCH 2020 | HOTEL ISTANA KUALA LUMPUR



MINISTRY OF COMMUNICATIONS
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Message from the ABU Secretary-General

I am delighted to welcome you all to the ABU's Digital Broadcasting Symposium and to this wonderful city of Kuala Lumpur. We highly appreciate your participation in this annual event which brings together broadcasters and media professionals from the region and across the world.

The ABU is a not for profit, non-government, professional association of broadcasting organisations. We facilitate the development of broadcasting in the Asia-Pacific region and we also organise co-operative activities amongst our members. The ABU currently has more than 260 members in 72 countries.

The broadcasting industry is going through huge changes mostly driven by the advancing technologies and the convergence of IT and media services. The widespread and availability of wireless broadband, and the availability of affordable mobile devices capable of media streaming has changed the way content is consumed by audiences. Like the new players making use of these changes to get into the market, it is imperative that broadcasters take a step forward to study and evaluate these technologies and how they can maximise the opportunities they provide. It is crucial that broadcasters move forward to enhance their services to remain competitive in the current market.

The DBS2020 with the theme "Collaborate and Innovate", aims to address the ongoing challenges and help find effective solutions for the broadcasters to remain relevant and take informed decisions. Industry experts believe that broadcasters need to work together and find creative solutions to challenge the hugely resourceful competition they are up against. Broadcasters need to be agile and adopt a more media centric approach taking advantage of the convergence of technologies and the new digital innovations in media delivery, intelligence and business operations.

The symposium will feature conference sessions, panel discussions, focused workshops and masterclasses presented by esteemed professional experts from across the globe. This year the discussions will address challenges, find solutions and share experiences related to digital transition, technology implementation, creative content ideas, and enhancing user experiences. It will explore opportunities the changing media business can provide and find effective ways how broadcasters and media organisations can collaborate to future proof their operations. The industry exhibition will provide a one-stop showcase for the newest technologies and solutions currently available in the market.



We would like to put on record our sincere appreciation to all our sponsors, supporters and partners who make this event possible every year. I am delighted to note that, with the continued support of our members and industry partners, we are yet again adding another chapter to this annual event which has gained a good footing in the industry calendar. The annual DBS is one such activity the ABU organises for the benefit of our members and industry partners in the region.

The 2020 Digital Broadcasting Symposium will explore exciting prospects for the broadcasting and media industry to move forward with new services, creating new opportunities and engaging audiences in today's multiplatform environment.

We are happy to welcome participants from across the Asia-Pacific and around the world and I wish you a very productive and successful discussions during the event.

We extend our appreciation and thanks to the following for their invaluable support

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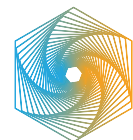
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EXHIBITORS



2 Mar Monday DBS WORKSHOP DAY	
09:30-17:00	SDI to IP Workflow (full-day workshop)
14:00-17:00	WorldDAB Technical Consultations (half-day)
3 March Tuesday CONFERENCE Day 1	
09:30-09:45	OPENING SESSION
09:45-10:45	<p>Session 1: Advances in Technologies & Broadcast Standards Future of Broadcast TV <i>Dr Peter Siebert, Adcom member, IEEE BTS</i></p> <p>Will cloud become and broadcast reality before IP <i>Dr Fintan Mc Kiernan, CEO, IDEAL Systems</i></p> <p>Digital Radio Technical Update – DAB, DRM, RadioDNS <i>Lindsay Cornell, Principal Systems Architect, BBC Digital</i></p>
10:45-11:15	Networking Break
11:15-12:30	<p>Session 2: Evolving Media Business – Strategies and Opportunities Commercial Radio Evolution and Digital Radio <i>Joan Warner, Chief Executive Officer, Commercial Radio Australia & Vice Chair, Asia Pacific, WorldDAB</i></p> <p>Using Shared Transmission Facilities <i>Steve Ahern, Managing Director, AMT Pty Ltd</i> (TBC)</p> <p><i>Mazlan bin Mahdi, CEO, MYTV Broadcasting Sdn Bhd</i></p> <p>Do You Know What You're Worth? – Marketing Prioritisation within Public Service Broadcasting <i>Joseph Goddard, Director, Asia-Pacific, James & Wilkinson Media</i></p>
12:30-14:00	Lunch
14:00-15:30	<p>Workshop presented by T-NET JAPAN</p> <p>Session 3: IBB Interoperability</p> <p>Case study and way of approach realizing interoperability from the viewpoint of disaster management <i>Yoshimitsu Tsurimaki, Producer, T-NET Japan</i></p>
15:30-16:00	Networking Break
16:00-17:00	<p>SESSION SPONSORED BY VERIZON MEDIA</p> <p>Session 4: Cybersecurity and Content Piracy – Action Required Cybersecurity and Content Piracy <i>Matthew Sturgess, Regional Managing Director Asia-Pacific, Verizon Media Platform</i></p> <p>Cybersecurity Recommendations <i>Hamid Nayeri, Chairman ABU Technical Committee</i></p> <p>Digital Piracy Co-Regulations <i>Muhammad Amirul Hafiz bin Rosly, Head of New Media Department, MCMC</i></p>



*Details are correct at the time of printing.

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4 March Wednesday | CONFERENCE Day 2

09:30-10:30

Session 5: Digital Radio, The Podcast Generation & Enhanced Audio Technologies**Digital Radio Offering - Public Service Media Strategies and Opportunities***Nurulhusna Mohamad Kasim, Assistant Director, Radio Television Malaysia***Digital Radio, The Podcast Generation & Enhanced Audio Technologies***Joan Warner, Chief Executive Officer, Commercial Radio Australia & Vice Chair, Asia Pacific, WorldDAB***Hybrid Radio Update - Combining broadcast radio and IP in connected vehicles***Nick Piggott, Project Director, RadioDNS*

10:30-11:00

Networking Break

11:00-12:30

Session 6: Advanced Broadcast Delivery Systems and 5G Technology**LTE (5G) BroadCast Networks - Requirements and Capacity***Mats Ek, Technical Director, PROGIRA***Delivering a better user experience for live OTT using Multicast ABR***Colin Prior, APAC Sales Manager, ENENSYS***Potential of Satellite Broadcasting toward Progress of Broadcasting Services***Masashi Kamei, Senior Research Engineer, Science and Technology Research Laboratories, NHK-Japan***Emergency Alerting with Open Source Technologies***Rob Hopkins, OpenBroadcaster Inc.*

12:30-14:00

Lunch

14:00-15:30

Session 7: Media Personalisation Strategies – Applications of Big Data & Artificial Intelligence**Social Big Data Analysis for TV Program Production***Hiroki Okamoto, Research Engineer, NHK-Japan***Practical Applications of AI in Television and Video Production***Maarten Verwaest, CEO, Limecraft, Belgium***Targeted/Personalised Advertising***Colin Prior, APAC Sales Manager, ENENSYS***Human Motion Capture Using Deep Convolutional Neural Networks***Mohammad Nozari Pak, Senior Researcher, IRIB R&D, Iran*

15:30-16:00

Networking Break

16:00-17:00

Session 8: Media Management, Workflow Automation and Cloud Integration**The importance of an efficient content supply chain: 4 case studies***Albert Feytons, Business Consultant, MEDIAGENIX***Cloud Playout – IAAS***Emanuele Porfiri, Solution Architect, Tecla System*

*Details are correct at the time of printing.



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5 March Thursday | CONFERENCE Day 3

09:30-10:30

Session 9: Advanced Production Technologies and All-IP Infrastructure**Live IP Production (Opportunities and Challenges)***Dr Mohieddin Moradi, Senior Researcher, IRIB R&D***PTP MANAGEMENT AND ST2110 MEDIA FLOW MONITORING - Why an umbrella management layer for all-IP infrastructures has become a must***Thomas Gunkel, Global Market Director Broadcast, Skyline Communications***Upgrading TV Studios to HDR Technology with focus on SDR and HDR Coexistence***Seyed Mohammad Paknahad, Senior Researcher, IRIB R&D, Iran*

10:30-11:15

Networking Break

11:15-12:30

Session 10: Industry Debate Panel – “The Changing World of Broadcasting...”

Moderator: (TBC)

Panellists:

(TBC)

12:30-14:00

Lunch

14:00-15:30

SESSION SPONSORED BY VIZRT**Session 11: Content Delivery Networks, OTT Platforms and IBB Systems****The Software Switcher – Tearing Down The Walls of the Control Room***Roberto Musso, IP&NDI Regional Product Manager EMEA, Vizrt***Assessing consumers' appetite for on-demand and streaming. What does the consumer want?***Mardhiah Nasir, Director & VP of Sales, IPSB Technology*

(TBC)

*Yoshimitsu Tsurimaki, Producer, T-NET Japan Co Ltd***New DVB-I Standard and Latest Trends in TV Delivery Over Internet***Mika Kanerva, COO, Sofia Digital Ltd***Faster than Broadcast – Ultra Low Latency OTT Streaming Today***Chao Yin Loong, Enterprise Architect, Akamai, Singapore*

15:30-16:00

Networking Break

*Details are correct at the time of printing.



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Meet us at the ABU Digital Broadcasting Symposium 2020
in Kuala Lumpur on March 2nd to 5th.





Dr Javad Mottaghi, Secretary-General of the ABU

Dr Javad Mottaghi assumed office as Secretary-General of the Asia-Pacific Broadcasting Union (ABU) in May 2010. Before joining the ABU, he was Director of the Asia-Pacific Institute for Broadcasting Development (AIBD) for 12 years. He has 37 years of national and international experience in

media/communication, international partnership, media development, ICTs, capacity building, networking, research, negotiations, fund raising, news and programming for radio and television, social and cultural television programmes and sports coverage.

He holds a Ph.D. from the University of Teesside in England. He also holds a Bachelor's degree in Mechanical Engineering from Tehran Sharif University of Technology.

Dr Peter Siebert, Adcom member, IEEE BTS

Dr. Peter Siebert's career spans 35 years. He has held various positions within the Broadcast industry, most recently he was the Executive Director at the DVB Project Office in Geneva, where he was responsible for all organizational and technology related aspects of the DVB. Prior to this with Siemens AG, he was influential in the design of the end-to-end IPTV and set-top box solution; at SES-ASTRA he was instrumental in the introduction of digital television via satellite for Europe, based on the DVB/MPEG-2 standards; and at Philips Kommunikations AG, he managed digital audio and video transmission.



Lindsay Cornell, Principal Systems Architect, BBC Digital and WorldDAB Technical Committee Chairman

Lindsay has worked for the BBC for more than 20 years, in a variety of engineering, editorial and leadership roles spanning radio, TV, and spectrum regulation. He has considerable experience of leading collaborative projects

through his roles as Chairman of CEPT FM PT51, dealing with spectrum issues for programme-making, and as Chairman of the WorldDAB and DRM Technical Committees, managing the stability and development of the respective standards.



Steve Ahern, Managing Director, AMT Pty Ltd

Steve Ahern is an internationally recognised radio and tv broadcast trainer, new media specialist and converged media business consultant. He is the author of the text book Making Radio, and the proprietor of two successful online trade-publications for the Australian and Asian radio industries: www.radioinfo.com.au and

www.AsiaRadioToday.com Steve was previously a Director at the Australian Film Television and radio School and a senior executive at the Australian Broadcasting Corporation. His early career included work as a reporter, producer, announcer and program director in television and radio. He was awarded an Order of Australia Medal in the 2009 Queen's Birthday honours list for his contribution to media and training in Australia. Steve currently works with media companies around the world to help them evolve and adapt successfully in the changing media environment.

Dr Mohieddin Moradi, Senior Researcher, IRIB R&D

Dr Mohieddin Moradi received his Ph.D. degree in Electronic engineering and is currently working in the production technology affairs of the IRIB R&D department. Her speciality is designing studios and OB systems, video and digital image processing, video coding, artificial intelligence, and fuzzy control systems. His executive and scientific experiences include supervising the video technical laboratory, the director of video technical affairs of the IRIB technical department of audio and video, teaching undergraduate courses such as electronics, television systems, specialized electrical language, and video equipment, as well as graduate courses such as video coding, information encoding, and digital image processing.



Thomas Gunkel, Global Market Director Broadcast, Skyline Communications

Thomas Gunkel is Global Market Director Broadcast for Skyline Communications and is responsible for the broadcast customers within the company. With more than 15 years of experience in product marketing, solution design and engineering of broadcast and video solutions for broadcasters, network providers and service providers, he joined Skyline Communications in April 2017.

Previously he has held several technical and sales positions at Imagine Communications, Harris Broadcast and EVS. Thomas holds a master's degree in media technology from the Stuttgart Technology University of Applied Sciences.



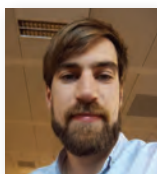
Seyed Mohammad Paknahad, Senior Researcher, IRIB R&D, Iran

Mr. Paknahad is Research Engineer at IRIB R & D. He received B.S. and M.S. degrees in Electronics and Communications. In 2009, he joined IRIB and established his career as an audio and video engineer. Since 2016, he has been in charge of research and development of HDR,

Tonemapping, UHD TV, secret sharing, data hiding, visual cryptography, and image processing tools.

Mohammad Nozari Pak, Senior Researcher, IRIB R&D, Iran

Mr Mohammad Nozari Pak, the member of IRIB R&D has received his M.Sc degree in Telecommunication – Electrical engineering in field of Image Processing. He is interested in the application of Machine learning in video, that's why, he is currently working on Novel Video Coding and Machine learning algorithms based on Artificial intelligence. On his job experience, he is a major in Inpainting and Super Resolution with Python Programming. It is worth mentioning that, He is now having some courses about Electrical Engineering in IRIB University.



Albert Feytons, Business Consultant, MEDIAGENIX

Business engineer by education, MEDIAGENIX business consultant by profession and storyteller by passion, Albert Feytons has over 10 years of experience in the media industry. His track record spans from implementing rights management solutions for global sports platforms to redesigning the entire IT landscape of large public

broadcasters through to implementing state-of-the-art planning and scheduling optimization tools. MEDIAGENIX delivers world-class content supply chain management software that is used by the biggest OTT platforms and media companies in the world.

Hiroki Okamoto, Research Engineer, NHK-Japan

Hiroki Okamoto received B.E. degree and master's degree in information science and technology from University of Tokyo, Tokyo, Japan, in 2012 and 2014, respectively. In 2014, he joined NHK. Since 2017, he had been with NHK Science & Technology Research Laboratories. He had been engaged in research and development of image sensors and cameras for the 8K Super Hi-vision. Since 2018, he has been engaged in research of information extraction on Web.



Masashi Kamei, Senior Research Engineer, NHK Science & Technology Research Laboratories

Masashi Kamei joined NHK in 1997 and currently belongs to Science & Technology Research Laboratories. His research field is satellite broadcasting system. He is a vice chairman of ABU Technical committee since 2018.

Mats Ek, Technical Director, PROGIRA

Mats is one of the founders of PROGIRA®. He has been active in the broadcasting industry since 1989 when he joined Teracom, the national broadcast network provider in Sweden. He has been involved in system standardisation of DAB within the Eureka-147 project as well as in the standardisation of the DVB-T system, in particular in the design of the OFDM based RF-system. From 1991 he has primarily been active in the area of Network and Frequency planning.



Colin Prior, APAC Sales Manager, ENENSYS

Colin joined ENENSYS in 2012 and is responsible for sales and business development of ENENSYS products throughout the Asia-Pacific region. He is based in Thailand and is assisting many broadcasters and operators with their deployment of terrestrial transmission networks for DVB, ISDB-T and ATSC 3.0 standards, as well as LTE Broadcast and M-ABR technologies for telcos. Colin is a Chartered Engineer and holds a Bachelor of Engineering Honours degree in Electrical and Electronic Engineering from the University of Bradford. He is a member of the Institute of Engineering and Technology.

Matthew Sturgess, Regional Managing Director Asia-Pacific, Verizon Media Platform

Matthew is the Regional Managing Director and Head of Sales Asia Pacific at Verizon Media Platform (based in Singapore); He has been in the business of streaming live video in the region for nearly two decades. Verizon Media Platform offers an industry-leading cloud-based suite of products and services to prepare, secure, deliver, display and monetize online content. Our 98 Tbps content delivery network consists of over 5,500 interconnects at 145 points of presence on six continents ensuring high-quality viewing of digital content on any device anywhere/anytime for many of the world's largest sports broadcasters, publishers and media companies. Learn more at verizonmedia.com/media-platform.





Joseph Goddard, Director, Asia Pacific, James & Wilkinson Media

Joe's 12 years of experience within Broadcast Marketing and Media planning spans across many international markets. He joined JWM in 2013 after several years at Viacom UK as Media Manager for Nickelodeon and now heads up the JWM Asia Pacific office in Singapore.

JWM works with Broadcasters across the globe to maximise the potential of their owned media space to drive audiences to consume content and engage with brands. Services include; promotional strategy consultancy across both linear, VOD and digital platforms, facilitation and training.

Joan Warner, CEO, Commercial Radio Australia & Vice Chair, Asia Pacific, WorldDAB

As CEO of Commercial Radio Australia (CRA) Joan was responsible for the planning, roll-out and implementation of DAB+ digital radio in the five metropolitan capitals covering over 60% of the Australian population, and continues the DAB+ implementation for commercial radio broadcasters across regional Australia. She oversees the whole of industry marketing campaign, Radio Codes of Practice, audience survey contracts and industry copyright agreements. She is responsible for the annual National Commercial Radio Conference, Siren Creative Awards and Australian Commercial Radio Awards.



Dr Les Sabel, Founder, S-Comm Technologies

Les has over 30 years of experience in communications systems, including broadcast digital radio (DAB/DAB+/DMB and DRM), mobile communications, wireless broadband and satellite communications.

Les founded S-Comm Technologies Pty. Ltd. in 2008 to work with the radio industry on DAB+ digital radio. S-Comm has provided services to many Australian and international companies and currently provides on-going independent engineering consultancy to Commercial Radio Australia, WorldDMB, the ITU, the ABC and SBS, and various commercial radio networks and regulators in Australia and South East Asia.



Nick Piggott, Project Director, RadioDNS

Nick has spent the majority of his career working in the radio industry, initially in programming and then moving to digital radio and online innovation. He is one of the founders of RadioDNS Hybrid Radio, the open technology project that lets broadcast radio and IP work together, combining the power of broadcasting to reach many people and the power of the internet to deliver enhanced or personalised content.

Kathryn Brown, Head of Strategic Development, Commercial Radio Australia

Digital Radio Project Manager, Kath Brown works with Commercial Radio Australia's digital technical advisory committee to further develop the DAB+ platform. She works with regional broadcasters and the Digital Radio Planning Committee to implement trials and develop the costing and technical framework for regional roll out in Australia.



Kath works closely with retailers, manufacturers, the automotive industry and mobile phone manufacturers to introduce DAB+ into phones and cars. Kath is on the Steering Board of RadioDNS and works closely with the project office at WorldDAB.

Kath has an Economics degree, a business and strategic focus and has worked in newspapers and radio for most of her career.



Mardhiah Nasir, Director & VP of Sales, IPSB Technology

Mardhiah is currently the Director and VP of Sales at IPSB Technology. As a Media Technology Evangelist, she leads the go-to-market strategies for Malaysia and the ASEAN region. IPSB focuses on providing Managed Services for Big Data Infrastructure, Digital Media and Network Security solutions. Partnering with leaders across the industry, her team takes advantage of the company's core competencies and introduces new products to markets, especially in the Media and Entertainment sector. Moving forward, IPSB hopes to impact the education, healthcare and telco industry as well to ensure that we help craft technology for a sustainable future #IPSBshapingthefuture



Dr Fintan Mc Kiernan, CEO, IDEAL Systems

Fintan joined Ideal Systems Group in 2011 to establish Ideal Systems in South East Asia. Now with offices in Kuala Lumpur, Singapore and Jakarta, Ideal have built broadcast studios, facilities and systems for leading broadcast operators including Sony Pictures, Fox Sports, Astro, Globecast, Encompass Digital Media, CNN Indonesia and SingTel. Fintan is a member of the Asia Broadcast Union's Engineering Excellence Awards panel of judges and is a member of the Board of Advisors for Asia Image Magazine. Prior to joining Ideal, Fintan established OmniBus Systems in APAC (Now Belden GV) and has worked in broadcast technology roles in the US and Europe. Fintan is a regular contributor and speaker at broadcast industry events in Asia including SMPTE, ABU and Broadcast Asia.

Hamid Dehghan Nayeri, Chairman ABU Technical Committee, Director, International Technical Affairs, IRIB

Hamid Dehghan Nayeri is Director of International Technical Affairs at Islamic Republic of Iran Broadcasting (IRIB). He is also Chairman of the ABU Technical Committee, a post he took up in 2018. Mr Nayeri's speciality is spectrum management. His experience in broadcast technology includes planning and developing transmitters, installation and commissioning of SW transmitters and antennas, and planning of MW and SW stations. Mr Nayeri is actively involved in ITU activities as well as cooperating closely with the European Broadcasting Union's Technical Committee. He was Vice Chairman of the ABU Technical Committee for four years from 2013 to 2016 and was also the Panel Chairman of the ABU Engineering Excellence Awards.



Chao Yin Loong, Enterprise Architect, Akamai

Chao Yin Loong has about 20 years experience in the broadcast industry. He started his career at Mediacorp Singapore where he implemented the first DVB-T system in South East Asia. He has also worked for Rohde & Schwarz where he was a trainer and evangelist for various broadcast technologies like DVB-T2, encoding systems, IMF and various others. He was also a previous speaker at ABU DBS presenting of 4K ingest and delivery. Currently he works for Akamai Technologies as Enterprise Architect. He focuses on helping major broadcasters in their OTT setup and workflow and delivery.



Emanuele Porfiri, Solution Architect, Tecla System

Emanuele's 20 years of experience within Broadcast Industry and Media management spans across many international markets. He was worked with one of the top five worldwide provider in Automation and MAM since 1999, and he managed the Italian and South American market for that company. He joined Tecla System early 2019 and now heads up presales and solution architect. Services include: baseband playout, cloud playout, implementation of IAAS for a complete media life-cycle.

Yoshi Tsurimaki, Producer, Strategic Promotion Department, T-NET JAPAN Co., Ltd.

Mr Yoshi Tsurimaki worked for TV production over 15 years and had been creating datacasting contents, related systems and on air operation tools as technical director and producer. Mr Tsurimaki was a Japan delegate Official member of the ASEAN-JAPAN IBB workshop and Steering Committee Member of AWARN (Advanced Warning Response Network : US).



As Technical Director he was responsible for HTML5 datacasting contents creation and related system development. As Producer he provided support service for the development of the national TV station of the Philippines and Botswana including emergency warning broadcasting service. As a Researcher Mr Tsurimaki was involved in Web and TV trends and specifying targeting element for standardization in the next generation TV technology and research on the possibility of overseas deployment of Next-Gen TV apps.



Mika Kanerva, COO, Sofia Digital

Mr Mika Kanerva has 20 years of experience in Digital Television and special knowledge about DVB broadcasting technologies and creation of added-value services for television. He has unique global experience about digitalization of the TV, development of new TV / OTT services and delivering solutions for HbbTV and Smart TV environment. Mr Kanerva has been closely involved in TV standards development and industry collaboration especially at Nordic region, Europe and South-East Asia where he provided insight for the television digitalization process from analog TV switch-off to DVB-T2 and Connected TV services launch based to well-known industry standards. He graduated in 2008 as Master of Computer Science at the University of Tampere, Finland. He has been one of the founders and key persons in Sofia Digital since 2000 and currently working in the company as Chief Operating Officer.



**Rob Hopkins, Radio and Telecommunications
Enthusiast, OpenBroadcaster, Canada**

Radio Rob always loved the reach of radio within communities, but was fed up with the restrictive way of streaming media from a fixed studio space using desktop applications, so he created a simple to use web based inclusive system, where the community runs radio stations with emergency messaging, while he gets to enjoy music and receive a residual income.

**Ts Nurulhusna Mohamad Kasim, Assistant Director,
Radio Television Malaysia**

Experienced Broadcast Engineer with a demonstrated history of working in the telecommunications industry. Skilled in Management, Radio, Television, Networking and Radio Frequency (RF). Strong operations professional with a Master of Engineering (MEng) focused in Telecommunications from UNSW Australia. Currently working as Assistant Director at Strategic Development Division. Registered Professional Technologist from Malaysia Board of Technologist (MBOT) and IEEE Member for Malaysia Section.



**Alex Reza Shariman Othman, Head of International
Relations, Radio Televisyen Malaysia**

A graduate of MARA Institute of Technology, Alex's first degree was in the field of Mass Communication, majoring in broadcasting. In his experience of more than 20 years in the broadcasting field at RTM, Alex has performed extensive duties in television production, channel branding, public and international relations. Representing RTM at international conferences and meetings abroad, he also led several successful cooperation programmes, festivals and productions to fruition. He received his Master in Integrated Marketing and is currently pursuing a doctorate in Consumer Psychology, focusing on tourism.

**Muhammad Amirul Hafiz bin Rosly, Head of New
Media Department, Malaysian Communications
and Multimedia Commission (MCMC)**

Muhammad Amirul is currently the Head of New Media Department in the Malaysian Communications and Multimedia Commission.



He is in charge of the overall planning and management of the activities in the New Media Department. He is currently Malaysia's Special Point of Contact (SPOC) in official Government Law Enforcement Request with Facebook, Google, Twitter and various other foreign and local platforms providers.



TIARA VISION SDN BHD

Tiara Vision, the broadcast & communication company, provides a complete range of consultancy services covering from broadcasting strategy, system design, workflow, business analysis, to installation & support services delivered by a group of world-class independent consultants with over 30 years' experience in the broadcast industry.

We will be exhibiting end to end solution for playout automation that covers from Media Asset Management (MAM) & Graphic Solutions, Nearline & Archive Storage, to Playout Automation.

Drop by our booth to learn more with our experts from Vizrt, Promise and Pebble Beach System

We Transmit Your Vision.



Islamic Republic of Iran Broadcasting (IRIB)

TV service was launched in 1958 in Tehran with a three-hour daily telecast. In 1966, the management of television was transferred to the government and the National Iranian Radio and Television (NIRT) was established. The National Iranian Radio and Television (NIRT) was renamed the Islamic Republic of Iran Broadcasting (IRIB) in 1979, after the Islamic Revolution in Iran.

IRIB's headquarters are located in Tehran. There are 32 IRIB centres in the provinces and 20 offices abroad. Over 30,000 employees work at IRIB. It operates eight nationwide television channels using terrestrial television transmitters for national coverage. IRIB also uses satellite feeds on Chinasat 12, 87.5°E as input signals to TV stations.

Currently, all provinces in Iran have their own radio channel and 70 percent of the provinces have their own TV channels and a training channel has recently been launched.

IRIB is completely independent and solely responsible for the development and maintenance of its production technical systems, studios, archive centres, transmitters and associated technical facilities. IRIB also operates a teletext service, an Internet website and publishes radio- television magazines.



T-NET JAPAN Co Ltd

T-NET JAPAN is a digital TV service production and providing service platform for mainly TV broadcasters and also Cable station as well. Our service platform contains many functions which capable of media player to create their advanced services and also covers generation of legacy to Next-Gen.

Our team is made up of a group of experts, specialists who have been involved in the movement and transition of towards Next-Gen TV for many years and provide powerful services at each phases at global field.

MEDIAGENIX

MEDIAGENIX

MEDIAGENIX develop and implement WHAT'S'ON, Europe's most advanced platform for managing and programming radio, TV and online content channels. With modular desktop applications or web-based applications in the cloud that sit at the centre of future-proof media operation ecosystems, MEDIAGENIX help optimise and automate the life cycles of content, and drive efficiencies throughout the content supply chain from acquisition over planning, scheduling and rights management to publication and beyond. The solution supports the entire content workflow, or drives content/rights/media/EPG/finance workflows as a central system complemented with best-of-breed niche applications, to strategically run a mix of OTT, VoD and Linear business.

PROGIRA®

PROGIRA

Founded in 2003, PROGIRA are pioneers in planning, designing, and optimization of radio-frequency networks. Our range of cutting-edge software and solutions empower clients to achieve their network coverage requirements, reduce cost and resolve digital dividend. Our state-of-the-art algorithms enable accurate planning for maximum efficiency. With focus on innovation and dedication to introducing powerful solutions, PROGIRA launched two brand-new software: PROGIRA® plan for server modernizes radio-frequency network planning through automation, and PROGIRA® manager - the ultimate spectrum management system, designed with a strong foundation for customization, scalability, and security. Currently, we have clients from 50+ countries around the world.

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Canara Lighting

Canara Lighting, leading global studio lighting system manufacturer provides total studio lighting solution for broadcasting industry worldwide for over 40 years. They provide consultancy, design, project management, manufacturing, installation, commissioning, training and after sales service under total one roof. Product range includes hi-tech LED and other lighting fixtures, rigging equipment, cabling and networking, dimming and lighting console. Products are as per international standards and CE certified. Over 1000 installations are using their equipment satisfactorily. World class manufacturing facility is located in India. Currently, their products are exported to Asian countries including China, Middle East, African countries and European countries.

Mr. Ajeet Khare

Mob: +91 9845061859 | E-mail: ajeet@canaralighting.com



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TechKnow Solutions are a team of media specialists providing end to end solutions from cloud and network connectivity to content management, broadcast services and consultancy. TechKnow Solutions strategic partners makes it possible with innovative products such as Ai subtitling and media management, making content preparation seemingly easy. Cloud connectivity and cybersecurity plays a vital role in ensuring a secured environment making processing and delivery more efficient. Another key pillar of our services are technical training and development, here TechKnow collaborates with industry experts in transforming people into evolving technologies. TechKnow's goal is to blend people skills with technology, promising cost-effective solutions to our clients and quality experience to the customers.

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WHITEWAYS SYSTEMS PTE LTD

WHITEWAYS

Whiteways offers its on-site systems integration and engineering consultancy services to broadcasters throughout Asia. Today, we have numerous clients across Asia, Pacific and Africa. Whiteways delivers Comprehensive, elegant and cost effective solutions. From initial projects consultancy through to design, hardware and software sourcing, installation and integration, documentation. User training and, finally, to post installation support. The Company focuses on providing complete solutions from Concept to Commissioning. The spectrum of services offered start from simple and specific solutions to complete turnkey systems for setting up new broadcast facility, upgrading or modernizing existing ones and implementing signal distribution to new media.



IDEAL SYSTEMS

We provide a full spectrum of services including consultation, design, installation, integration, as well as operational and maintenance support of state-of-the-art technology infrastructure. In addition to system solutions, we provide cloud, software and interior design services individually or as a combined service offering.



MEASAT

MEASAT is a premium supplier of communication and video services to leading broadcasters, Direct-To-Home (DTH) platforms and telecom operators. With capacity across five (5) communication satellites, MEASAT provides services to over 150 countries representing 80% of the world's population across Asia, Middle East, Africa, Europe and Australia.

Working with a select group of world-class partners, MEASAT also provides a complete range of broadcast and telecommunications solutions. Services include UHD/4K, HD and SD video play-out, video turnaround, co-location, uplinking, broadband and IP connectivity services.

For more information, please visit www.measat.com



RADIO FREQUENCY SYSTEMS

Radio Frequency System

Radio Frequency Systems is a global designer and manufacturer of cable and antenna systems, providing RF Systems solutions for cell-based mobile communications, in-building, in-tunnels, television and radio, radio-link networks, HF and defence.

RFS undertakes activities in R&D, manufacturing, installation and maintenance, providing total-package wireless infrastructure solutions for commercial broadcasting, PTT and defence radio communications industries. Specializing in broadband multi-channel broadcast systems, RFS designs and manufactures world-leading channel combining and filtering technology, flexible air-dielectric transmission line, RF switch frames, and a range of antenna options, including tailored panel arrays.

RFS is fully conversant with all global analogue and digital broadcasting standards, including emerging mobile TV technologies. We are represented on six continents, with nine manufacturing center-of-excellence (Germany, France, US, Brazil, Russia, China, Denmark, Mexico and Australia) and 36 technical support and sales offices.

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STAGETEC

Stagetec Asia provides full spectrum of German made audio infrastructure network, and core equipment for broadcast, as well as live sound solutions. Our inventory includes the latest technology in surround sound mixed, audio for 4K/ HDTV production, audio via fiber & IP for modern radio station, digital audio and video networking. We are affiliated with StageTec Berlin, the global leader in the manufacturing of high-quality digital audio products which introduces of New IP based Audio Mixing Console "AVATUS", "Platinum Series" & Award winning audio routing system "Nexus". These products are widely used in local television and radio station in Malaysia and South East Asia. Stagetec Asia began to expand further from distributing its own products to work exclusively with partners and their products to bring the best solutions to clients. Stagetec Asia has been working closely with partners such as DHD.Audio, Audinate, Zenon Media, Riedel, Dolby Audio, RTW, Yellowtec, Focusrite Pro, Junger and more.



BLONDE ROBOT PTE LTD

Blonde Robot is an importer and distributor of leading products for the consumer camera and professional content creation markets in over 15 countries throughout Oceania and South East Asia. In South East Asia, our brands consist of AJA Video Systems, NEWTEK NDI Technology, BIRDDOG NDI Tools and PTZ Camera, ATOMOS Monitor Recorder, TERADEK Wireless Transmitter, ANGELBIRD Memory Cards, GNARBOX Rugged Backup Device, SKAARHOJ universal broadcast controllers, WOWZA Media Systems, HAIVISION Video Transport. Our mantra is simple – we sell the cool stuff.





ABU DBS 2019 IN NUMBERS

1254
PARTICIPANTS

377
ORGANISATIONS

59
COUNTRIES

82
SPEAKERS

73 SPONSORS & SUPPORTERS

20 MASTER CLASSES

60 EXHIBITING COMPANIES

8 WORKSHOPS



2019 ABU Engineering Awards

ABU
ENGINEERING AWARDS
2019

The Engineering Awards consist of the ABU Broadcast Engineering Excellence Award, the ABU Engineering Industry Excellence Award, the ABU Green Broadcast Engineering Award and the ABU Developing Broadcasters' Excellence Award.

In 2019, the ABU received a total of 15 nominations for the awards.

The ABU Engineering Awards were judged by two panels of judges.

Mr Hamid D Nayeri chaired the Broadcast Engineering and Developing Broadcasters' awards panel and Dr Kong Bin chaired the Engineering Industry and Green Broadcast awards panel. The panel members are Mr Sunil, DD-India, Mr Masashi Kamei, NHK-Japan, Ms Hong, Young-Kyung, KBS-Korea, Dr Fintan Mc Kiernan, Ideal Systems, Mr Charles Sevier, Dell EMC, Mr Asaad Sameer Bagharib, Thinking Tub Media, Mr Jamel bin Seman, RTM-Malaysia, Mr Naoki Kashimura, Ikegami-Japan, Mr Peter Bruce, IABM, APAC and Mr Alexander Zink, Fraunhofer-Germany.

The sponsor of the 2019 ABU Green Broadcast Engineering Award is KOBA. We highly appreciate their support. Our thanks also to KBS for initiating the sponsorship.

KOBA

The ABU Green Broadcast Engineering Award recognises outstanding contributions in developing, implementing and/or promoting green technology in the broadcasting industry.

In 2019 there were three joint winners of the **ABU Green Broadcast Engineering Award** namely DRFT-NRTA China, All India Radio and NBT-Thailand.

The Radio, Film & TV Design & Research Institute (DRFT) NRTA-China won the award for the environmental protection measures taken in the Lotus TV Tower project in Colombo, Sri Lanka.

All India Radio won the award for adopting green technologies throughout its digitalisation programmes and promoting awareness of climate change.

The National Broadcasting Services of Thailand (NBT) won the award for promoting the protection of the environment throughout its digital transition.

Mr CHANG Hyung Jun, Executive Director of TV Production Technology, KBS who represented KOBA presented the Green award to Mr Zhang Hongyin of DRFT-China. Mr Chang also presented the award to Ms. Anuradha Agarwal, ADG (Engg) of All India Radio and to Mr Kachan Kannika of NBT-Thailand.



The **ABU Engineering Industry Excellence Award**, which recognizes the most outstanding engineering contribution made by an individual to the broadcasting industry in the region, was awarded to Dr Reza Alidadi, Technical Vice President of the Islamic Republic of Iran Broadcasting for his outstanding leadership and innovative contributions in the development of the radio and television industry in Iran.

Mr Keiji KODAMA, Director of Engineering Administration, NHK-Japan presented the award and we invite Dr Reza Alidadi/rep who is accepting on behalf of Dr Reza Alidadi.

The **ABU Broadcast Engineering Excellence Award**, which recognises contributions of an outstanding nature in broadcast engineering made by an individual in a broadcasting organization was awarded to Mr Lee Chang Hyung, Technology Executive Managing Director, Korean Broadcasting System for his outstanding leadership in establishing the digital broadcasting technology plan and his contributions in the digital transition in Korea.

Mr Hamid Nayeri, ABU TC Chairman, presented the award to Mr CHANG Hyung Jun who accepted the award on behalf of Mr Lee Chang Hyung.

The **ABU Developing Broadcasters' Excellence Award** which is for contributions of an outstanding nature in broadcast engineering made by an individual in a developing broadcasting organization was awarded to Mr Wali Ahmad Kabir, Head of TV, Technical Department of Radio & Television Afghanistan for successfully overcoming many challenges in RTA's ongoing transition to digital broadcasting.

Dr Kong Bin, Vice-Chairman Technical Committee presented the award to Mr Wali Ahmad Kabir.





ABU Technical Review Prizes 2019

The ABU Technical Review Prizes were awarded for articles contributed to the Technical Review from October 2018 to September 2019. The prizes were judged by the ABU Technical Committee Chairman and Vice-Chairmen.

Three prizes were presented each from the categories of Practical Implementation, Research and Case Studies.

The winner for the **Best Article on Practical Implementation** was Kim Hae Jung of KBS-Korea for the article titled Administrating IP-Based UHD Studio which appeared in the April-June 2019 issue.

The **Best Article on Research** was awarded to Mohammad Paknahad, Mahmoud Kiani and Dr Mohieddin Moradi of IRIB-Iran for the article titled A Novel Approach for Upgrading TV Studios to HDR Technology which appeared in the July-September issue.

The winner of the **Best Article on Case Studies** is Mr M S Duhan of DD-India for the article titled Anatomy of RF Amplifiers – Failure Mechanics and Maintenance Strategies. The article appeared in the October-December 2018 issue.

Mr Masashi Kamei, Vice Chairman ABU Technical Committee and Senior Research Engineer, Science and Technology Research Laboratories, NHK, presented the certificates to Mr CHANG Hyung Jun of KBS-Korea, to Mr Hamid Nayeri of IRIB-Iran and to Ms Anuradha Agarwal, ADG (Engg) of DD-India respectively.

Award is a team honour, says Atsushi Haruguchi

A senior NHK engineer, Mr Atsushi Haruguchi, has said the Distinguished Service Award conferred on him by the ABU was an honour for the broadcaster's entire engineering team.

Mr Haruguchi was speaking after receiving the award at the ABU Technical Committee Meeting in Tokyo on 18 November.

The award was bestowed on him in recognition of his important contributions to the development of television broadcasting, including the launch of 8K television.

He told the Technical Committee he believed all his NHK colleagues were being honoured for their work in developing broadcasting technology.

"In this sense, I am here as a representative of the entire engineering team of NHK."

Mr Haruguchi is the former Deputy Chief of Engineering and Director of the Engineering Administration Department at NHK. Since June 2019, he has been the Senior Executive Officer of NHK Technologies, Inc.



He contributed greatly to the development and installation of the play-out system for radio, terrestrial and satellite television broadcasting at NHK's Engineering Administration Department.

Mr Haruguchi told the meeting he felt fortunate to have been involved in assisting the digitalization of terrestrial television broadcasting in several Asian and Central American countries by applying the ISDB-T system.

He said he had spent 38 years as a broadcast engineer, during which time the industry had seen dramatic changes, from analogue to digital, tape system to server system, SDTV to HDTV, and HDTV to UHD TV.

"We faced various difficulties at these changes, but we managed to overcome the obstacles.

"Then we accomplished the digitalization and the analogue switch off in terrestrial and satellite television broadcasting, and the launch of the world's first 8K broadcasting last December."

Mr Haruguchi pledged to continue working to help advance broadcasting technologies in the Asia-Pacific region.



ABU
ENGINEERING AWARDS
2019

KOBA



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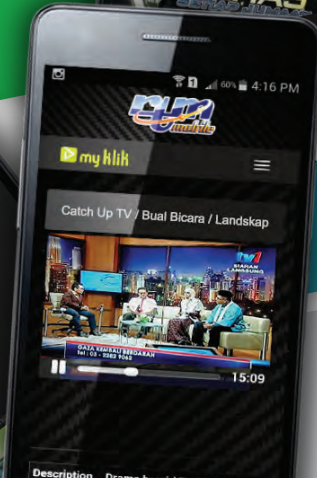
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