MEET IN ASIA PACIFIC FOR THE WORLD'S LEADING TRANSPORT TECHNOLOGY EVENT

ACTIVATING GLOBAL MOBILITY SOLUTIONS

2016 MELBOURNE
23rd World Congress on Intelligent Transport Systems

23RD ITS WORLD CONGRESS 2016
10–14 October 2016 | Melbourne Convention and Exhibition Centre

ITS - Enhancing Liveable Cities and Communities

CALL FOR PAPERS

Australian Government
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its australia
Intelligent Transport Systems
HOSTED BY

ASIA-PACIFIC ITS

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MELBOURNE AUSTRALIA
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CALL FOR PAPERS • OPEN 31 OCTOBER 2015 • DEADLINE 25 JANUARY 2016

TABLE OF CONTENTS

KEY DATES

ONLINE SUBMISSION OPENS
31 October 2015

SUBMISSION DEADLINE
25 January 2016

REGISTRATION OPENS
April 2016

AUTHOR NOTIFICATIONS
April 2016

DEADLINE FOR RESUBMISSION OF CONDITIONALLY ACCEPTED PAPERS
June 2016

FINAL PAPER SUBMISSION
August 2016

SPEAKER REGISTRATION DEADLINE
August 2016

WELCOME
FROM ITS AUSTRALIA

It is with great pleasure that I invite you to Melbourne to participate in the ITS World Congress, October 10 to 14, 2016. ITS Australia is delighted to be hosting the 23rd World Congress on Intelligent Transport Systems 2016 on behalf of ITS Asia Pacific, ITS America and ERTICO.

"ITS—Enhancing Liveable Cities and Communities" is the theme for the Congress, bringing Melbourne's reputation as the world's most liveable city into the spotlight as we explore the benefits that ITS delivers to critical elements of our daily life.

Australia is at the forefront of development and deployment of ITS technologies in many fields. With a unique landscape Australia's ITS industry has risen to the challenge of delivering solutions to enhance our daily lives. Our population is clustered in big cities with large urban areas where ITS technology such as managed motorways, free flow tolling and smart technology for public transport are being leveraged to maintain the mobility of our growing cities. Long transport distances across our vast country encourage innovation and adoption of technology across our heavy vehicle fleet to enhance safety and efficiency. Australia has a strong and innovative mining sector that has embraced ITS technology such as driverless trains and trucks to improve efficiency and safety in tough economic conditions. Similar to other countries, the important contribution that ITS can make to emergency management on our highway system and to minimising harm from natural disasters has been recognised and is increasingly being deployed to great effect.

In collaboration with ITS Asia Pacific, ERTICO and ITS America, ITS Australia is working to prepare an engaging program. In the tradition of ITS World Congresses there will be executive, plenary, scientific, technical and interactive sessions, a dynamic exhibition plus technical demonstrations and tours that showcase the applications of the latest ITS technology. This will be an opportunity for policy makers, practitioners, researchers and ITS providers to share information on big data analytics, smart cities, vehicle and network safety, cooperative and automated vehicles, future freight and many other innovations in ITS. Business opportunities, social needs and improved community liveability will be high on the agenda.

By 2016, living in an ever connected world, these themes will be even more pressing in our busy cities and communities. This World Congress will be Australia's opportunity to foster further international cooperation in unleashing the power of ITS.

While visiting the World Congress I encourage you to extend your stay to experience the hospitality and natural beauty of Australia and our close neighbour New Zealand. We look forward to warmly welcoming you all to Melbourne in 2016.

Brian Negus
ITS Australia President
and ITS World Congress 2016 Chair

REASONS TO VISIT MELBOURNE

Set on the shores of picturesque Port Phillip Bay, the southern-most city of mainland Australia is Melbourne; a creative, exciting, ever-changing city with extraordinary surprises to be discovered around every corner.

The city has an unrivalled calendar of major events, progressive dining scene, hidden laneways and art spaces, and unique regional escapes are just a short drive away.

Delegates to Melbourne will have no trouble filling their downtime when in town for a business event and will find it easy and convenient to experience the energy and vibrancy of the world's most liveable city.

Working with our skilled infrastructure engineers, Australia's ITS industry has helped to make Melbourne the world's most liveable city 5 years in a row. The use of ITS technology with a multi-lane free flow tolling network, combined with an expanding managed motorway program provide a key foundation to support effective transport to and from the CBD and around the city.

The City of Melbourne has deployed advanced parking management systems and supported this with strong public transport linkages, bike sharing and pedestrian precincts to achieve mobility and sustainability objectives - with an ambitious target of zero net emissions by 2020 for its council buildings.

Melbourne has the largest continually operating trams network in the world, now supported with modern day ITS features including tram track apps, real time timetable information at stops and tram priority at intersections.

Melbourne invites you to see what's new in Australian ITS since Sydney hosted the ITS World Congress in 2001 - only the second time the ITS World Congress has been in the southern hemisphere.

MELBOURNE VOTED
Most Liveable City
2011, 2012, 2013, 2014, 2015

WELCOME
ITS ASIA PACIFIC

On behalf of ITS Asia-Pacific, I would like to welcome you all to the 23rd ITS World Congress in Melbourne.

Fast, safe, reliable and efficient transportation has been one of the most important elements of the society for economic growth and enhanced quality of life. We are now at the outset of an endeavor with a new set of technologies which will change the way we observe phenomena in transportation and act on it.

Penetration of information and communication technologies to our daily life has given significant impact on our society. Highly automated cars will be put into market within a decade, which will dramatically reduce traffic accidents and congestion and also enable aged or challenged people to go out on their own.

Inclusive society, where diverse people in diverse community actively participate in generating values, will enhance both wellness of individuals and economic development. However, technologies alone won't bring about solutions. We need to take integrated approach combining state of the art technologies with social innovations. ITS technologies integrated with social innovations should provide

everyone with mobility to fully exercise his or her capacity, enabling sustainable development of the society.

The ITS World Congress in Melbourne is exactly where you find right experts from industries, academic societies and government agencies. Policies, technologies, institutional issues and human factors are all covered with supporting facts and experiences.

I hope the ITS World Congress will trigger a massive process of Enhancing Liveable Cities and Communities.

Hajime Amano
Secretary General
ITS Asia-Pacific

ITS AMERICA

On behalf of ITS America, I am pleased to invite you to attend the 23rd World Congress on Intelligent Transport Systems (ITS) taking place in Melbourne, Australia, from October 10 – 14, 2016.

The theme of the Congress, "ITS—Enhancing Livable Cities and Communities," will address the many benefits that ITS technologies bring to our daily lives and to our increasingly connected global economy.

Building on the success of Detroit and Bordeaux, the 23rd World Congress will take on discussions of how to advance new technologies to increase connectivity, improve mobility and create a safer, more reliable and convenient transportation network. With sessions on topics including open data, automated vehicles, smart cities and new mobile applications, submitting a paper or special interest session proposal is a great way to participate and help generate new ideas for advancing ITS solutions.

The ITS World Congress is an opportunity for policymakers, investors, practitioners, researchers and ITS providers to learn about the latest innovations and discuss best practices with other leaders from around the world. It will be one of the most valuable educational, networking and collaborative global events you'll attend in 2016.

I look forward to seeing you in Melbourne at the 2016 ITS World Congress!

Regina Hopper
President and Chief Executive
ITS America

ERTICO

On behalf of ERTICO – ITS Europe and its Partners, I would like to invite you to attend the 23rd ITS World Congress in Melbourne in 2016. The theme of "ITS—Enhancing Liveable Cities and Communities" will explore the benefits that ITS brings to all aspects of our daily lives such as improving sustainability of travel, reducing congestion, and increasing the performance and competitiveness of all modes of transport. This event will provide an opportunity to share information on big data analytics, smart cities, mobile applications, environmental sustainability, vehicle and network safety, cooperative and automated vehicles, future freight and many other innovations in ITS.

Australia's advanced development and deployment of ITS technologies across many sectors has helped to ensure Melbourne's position as the world's most liveable city for 5 years in a row and as an ideal venue for hosting the 2016 World Congress. European ITS stakeholders are very

much looking forward to visiting and engaging in discussions on the role ITS has to play in our future transportation.

I look forward to meeting you in the exciting and vibrant city of Melbourne, and to participating together in the wide range of events planned for the Congress.

Hermann Meyer
Chief Executive
ERTICO - ITS Europe

THE CONGRESS
ITS - Enhancing Liveable Cities and Communities

It is a great honour for Australia to be selected as the host national for this prestigious event. Surging growth in international demand will ensure that this gathering of ITS researchers, developers and users will be among the largest meetings in Melbourne during 2016.

ITS technologies include communication, data processing and electronic technologies for in-vehicle, vehicle-to-vehicle, vehicle-to-infrastructure and mode-to-mode systems that increase transport safety and mobility, improve the sustainability of travel, reduce congestion, and improve the performance and competitiveness of all modes of transport.

Australia organised the successful 2001 ITS World Congress in Sydney. We will build on that experience, and with the collaboration of our international friends, Melbourne will host a 2016 World Congress to help all cities and communities to become more liveable.

WHO SHOULD ATTEND

Transportation, technology, and business professionals involved in any aspect of the growing field of intelligent transportation systems, whether involved in research, planning, deployment, or operation, should make plans to attend this event.

And in this dynamic field, experts from the fields of investment and finance, communications, security and public safety, and insurance are playing dynamic roles alongside their colleagues in the transportation profession and are invited to participate in wide ranging conversation about the future of transportation and the essential role ITS is playing to make our transportation systems safer, less congested, and environmentally sustainable.

SAVE THE DATE
10-14 October 2016
Melbourne Convention and Exhibition Centre

SCIENTIFIC AND TECHNICAL PAPER TOPICS

Challenges and Opportunities of Big Open Data

The promise of Big Open Data is unlimited. The data and technology are there, and open access is increasing. The dramatic increase in data from infrastructure, vehicle and consumer sensors is complemented by organisations opening up access to their previously proprietary data. How do we now deliver the full promise of Big Open Data both within the industry and to consumers? How can we use this data to solve problems such as congestion, improving the practicality of car-pooling, multi-modal journey planning or simply keeping consumers informed? How can we manage issues such as privacy, data ownership and liability?

- Open data management and application
- Data sharing and exchange
- Ubiquitous sensing
- Technology for data collection
- Availability and quality of data
- Data visualisation
- Data fusion
- Predictive analytics
- New business models for traveller information
- Security in an open environment

Automated Vehicles and Cooperative ITS

There are many problems associated with road use – fatality and injury, congestion, stress, pollution… Could automated and connected vehicles offer a transport nirvana, and if so, how can we get there? What are the barriers remaining on the road to automated and connected mobility and how and when will they be overcome? How will we manage the mixing of automated and legacy vehicles and vulnerable road users such as pedestrians and cyclists? Will the sharing economy mean that cars no longer sit idle for 23 hours a day and what might mobility as a service mean for our cities?

- V2X Communication technologies and Cooperative systems
- Human factors and human machine interface
- Field operational tests, pilots and demonstrations
- Positioning, mapping and navigation
- Security and integrity for connected and automated vehicles
- Mobility as a service - a transport revolution?
- Infrastructure and regulation needs for a mixed-capability fleet

Smart Cities and New Urban Mobility

Cities continue to be engine rooms of global economic growth as well as prime centres of population growth. How can ITS help cities avoid being the victims of their own success, so that growth does not mean reducing liveability? Can new approaches to pricing help manage demand and provide more sustainable funding? Can next generation traffic management and incident management help smart infrastructure cater for these changing demands as well improve customer journey experiences? How can we make cities friendlier to people through integrated public transport, smarter parking and pedestrian friendly zones?

- Integrated transport system
- Next generation traffic management
- Transport modelling
- Road user charging
- Travel demand management
- Integrated ticketing and payment
- Incident management

Mobile Applications

Its a mobile and increasingly connected world. Many of us knew a world where work could be done only at the office, but now every aeroplane, train, bus, café and home can also be a workplace. People demand information anywhere and at any time it is useful to them and the explosive growth of smartphones had led to all-conquering 'app'. As these apps start to appear on our dashboard and our cars use smartphones for infotainment, do any boundaries remain? How can we continue to provide an ever better customer journey experience and move from customers searching for relevant information to that information proactively coming to them?

- Multi modal real time information
- Multi modal journey planner
- Demand responsive public transport
- Taxi and parking reservation
- Real time traffic advisory

Vehicle and Network Safety

The guiding vision of a safe system is that no person should be killed or seriously injured on our roads. How can we use ITS to help make this vision a reality? How can ITS help safer roads and roadsides, safer vehicles, safer drivers and safer speeds to avoid crashes from occurring? How can we improve post-crash responses so that more victims survive? How can we protect our most vulnerable road users?

- Speed advice and restriction
- Technology and system for safety and enforcement
- Advanced driver assistance and support systems
- Human factors
- Emergency pre-emption and notification
- Post-crash response
- Improving safety of vulnerable road users
- e-call
- Roadwork safety and inclement weather management
- Preventative and active safety systems

Environmental Sustainability

We all share the world in which we live and we need to care for this world. How can ITS make transport more environmentally sustainable, reducing not only its carbon footprint but also pollution and noise? How can we make active transport more convenient and appealing as part of a more liveable city? How can we help reduce the number of cars with only one occupant? How can we help accommodate the electrification of the vehicle fleet?

- Environmental impact reduction
- Electro mobility and charging
- Eco driving
- Reducing noise
- Car sharing, bicycle sharing and ride sharing
- Encouraging active transport and mode shift

Future Freight including Aviation and Maritime

Our economies depend on goods moving safely, efficiently and reliably on road, on rail, on water, through the air and through terminals. How can we use ITS to achieve smarter future freight? What role might unmanned vehicles play, on road, on rail, on water, through the air and through terminals? How can we offer seamless multi-modal solutions to customers and differentiate solutions for differing needs?

- Freight and fleet management
- Logistics
- Ports and border crossings
- Railway network operation
- Unmanned aerial vehicles (UAS / RPAS / Drones)
- Airspace management and navigation

Policy, Standards and Harmonization

Successful ITS requires not only smart technologies but also policy and regulatory frameworks, governance and collaboration, defined architecture and standards and successful funding strategies and business models. How can we continue to strengthen these foundations for success and continue to address issues such as liability and privacy?

- Standardisation and architecture
- Transport policy and strategy
- Regulation and enforcement
- Funding strategies and business models
- Liability and privacy opportunities and challenges for connected
- Measuring / Demonstrating the benefits (and costs) of ITS solutions and automated vehicles

CONGRESS FORMAT

Plenary Sessions

International top level transport officials and leading industry representatives will present insightful speeches on ITS policies, initiatives and international development trends. These are must-attend sessions.

Executive Sessions

High-level industry executives, public officials and academia experts from around the world will share their global and strategic views on ITS achievements, issues and challenges.

Special Interest Sessions

Organized at the request of organizations or experts involved in developing and deploying ITS, these sessions are designed as open forum for experts from government, industry and academia to hold discussions and debates on specific topics.

Technical / Scientific Sessions

These sessions are composed of presentations by international experts on various ITS-related topics encompassing all technical, economic, organizational and societal aspects of ITS. They will focus on the academic research and realization of ITS technologies in our lives currently carried out by experts and professionals.

Interactive Sessions

These sessions provide a space for an interactive discussion via two-stage presentations including a short oral presentation followed by a poster presentation. This climate of free, face-to-face dialogue leads to further innovations in the field.
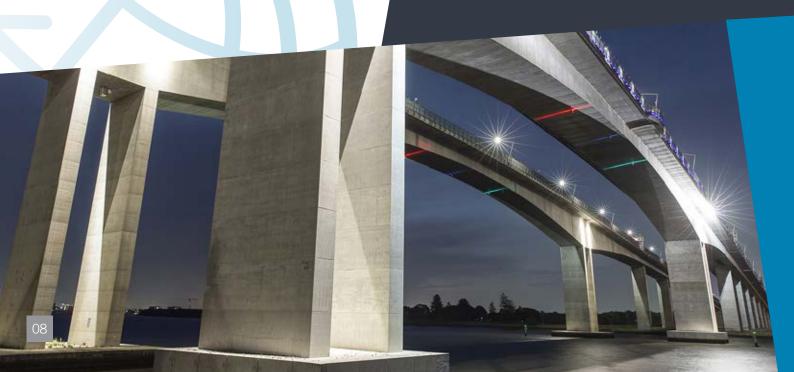
Commercial Sessions

These are presentations of Technical or/and Scientific Papers judged by reviewers and the International Program Committee to be "near-market" rather than "pre-market", or where authors have specifically requested the specialised Commercial Theatre located in the Exhibition Hall. Commercial Papers describe an activity aimed at generating or improving a specific product, device or idea for the market. Any registered attendee (including exhibitors and visitors) can attend any session taking place in the Commercial Theatre.

Commercial presentations will take place in the Exhibition Hall and are an opportunity for exhibitors and sponsors to provide more information about their commercial products and services. For more information, or to specifically book a reserved time-slot in the Commercial Theatre, please contact Jerome Buchanan, Sponsorship Development Manager at **sponex.sales@itsworldcongress2016.com**

PUBLICATION OPPORTUNITY

Scientific papers will be reviewed by highly qualified reviewers from each of the three World Congress regions and must meet high scholarly standards to be accepted. Selected papers will be invited to publish in partner journals, International Journal of Intelligent Transport Systems Research and IET Intelligent Transport Systems.

SUBMISSION GUIDELINES

The theme of the 23rd Intelligent Transport Systems World Congress is "ITS – Enhancing Liveable Cities and Communities".

The International Program Committee invites ITS experts to submit a Special Interest Session (SIS) proposal or a paper to be considered for presentation and publication at the ITS World Congress 2016.

Guidelines

- Authors may submit technical or scientific papers for conventional presentations or interactive sessions. The interactive sessions are based more around interactive discussions and so are highly effective for establishing valuable contacts and exchanging information.
- Papers from authors working for, or in close collaboration with, commercial companies are welcome; their presentation format will depend on their content. If a paper describes unspecified, open research or a pre-market activity it will be assigned to a conventional 'Technical' Session. By "pre-market" we mean work aimed at generating new knowledge which is not at present linked to the development of a specific product, although it is likely to be commercially exploitable in due course.
- Papers that are "near-market" rather than pre-market and submitted by authors as Commercial Papers (or papers judged by reviewers to be near-market), will be presented in the Commercial Theatre within the exhibition area.
- It is not necessary to submit the same paper under different types (Technical/Scientific/Commercial).
- All proposals must be original and report on recent significant and substantive achievements.
- Topics may address any mode of transport.
- The official Congress language is English. Papers not submitted in English will automatically be rejected.
- We will not normally allow authors to submit more than 2 papers. Also, we will not normally allocate more than 2 speaking opportunities for presenting papers.

TECHNICAL PAPERS may address the institutional, business, societal and economic aspects of ITS, as well as technical subjects.

- Please submit a draft technical paper of up to 3 pages in PDF format.
- The technical papers will be reviewed by at least one reviewer from the corresponding region and the papers much be original, relevant and significant.
- Authors of accepted papers must submit the final paper, no longer 12 pages online through the submission website by August 2016.

SCIENTIFIC PAPERS should concentrate on research and scholarships as they will be independently refereed in accordance with academic journal standards.

- Please submit a full paper of up to 12 pages in PDF format.
- The scientific papers will be reviewed by highly qualified reviewers from each of the three World Congress regions and must meet high scholarly standards to be accepted.
- Selected papers will be invited to publish in partner journals, *International Journal of Intelligent Transport Systems Research and IET Intelligent Transport Systems.*
- Papers which are submitted as Scientific Papers, but which are not judged to be of this top rating standard or relevance, may still be accepted as Technical Papers.

COMMERCIAL PAPERS are those describing near-market work. They should be specific rather than general and describe an activity aimed at generating or improving a specific product, device or idea for the commercial market.

- Please submit a draft commercial paper of up to 3 pages in PDF format.

Please note: Upon completion of your contribution, the system will generate an acknowledgment email with your paper number and confirming your contact details and chosen topic. This does not mean that the paper has been accepted.

GENERAL INFORMATION

VENUE

Melbourne Convention and Exhibition Centre (MCEC) bring people together to deliver world-class events and create memorable visitor experiences. MCEC provides you with the right spaces to connect, leading technology, award-winning food made in-house and exceptional customer service. Located on the banks of the Yarra River, MCEC offers sweeping city views, is only two traffic lights from the airport and a short stroll to Melbourne's city centre. Add all of this to Melbourne's unique character – a vibrant city with a relaxed atmosphere – and you'll find yourself in the perfect place to learn, share and connect in one of the world's most liveable cities.

MCEC was recognised as Australasia's Leading Meetings and Conference Centre in 2012, 2013 and 2014 by the prestigious World Travel Awards.

Visit **www.mcec.com.au** for more information.

Melbourne Convention and Exhibition Centre (MCEC)
1 Convention Centre Place
South Wharf VIC 3006 Australia

REGISTRATION

Online registration for the 23rd Intelligent Transport Systems World Congress will be open from April 2016.

Subscribe to receive the regular newsletters to stay up to date and be in the running to win an exciting balloon ride over Melbourne!

WEBSITE

Go to the website for the most up-to-date information:
www.itsworldcongress2016.com

CONGRESS LANGUAGE

The official language of the Congress is English and all mainstream sessions will be delivered in English.

Submit a Special Interest Session proposal (SIS)

A limited number of Special Interest Sessions will be included in the program, in addition to conventional presentations, interactive sessions, executive and plenary sessions. Organised at the request of organisations or experts developing and deploying ITS, these interactive, tailor-made sessions will delve into topics and offer fresh perspectives and insight.

At recent World Congresses there have been substantially more Special Interest Session proposals than there are slots available. To ensure as wide a range of sessions as possible and to facilitate selection on merit, the International Program Committee requires that submissions must meet tighter selection criteria, and that:

- Bids will not be considered unless the name, email address and telephone details of the moderator and at least 3 **confirmed** speakers are provided.
- If a majority of speakers named in the Provisional Program are not registered by the speaker deadline, then the Session will be closed and the slot given to a candidate from the reserve list.
- SIS proposals that address a single project will be given low priority compared to those that tackle a broad area.
- The International Program Committee reserves the right to combine provisionally approved sessions and review the speakers for the resulting session.

- All session proposals must be submitted online using the official Paper Submission Portal accessed via the congress website **www.itsworldcongress2016.com** Submissions sent by mail, fax, or email will not be accepted, and will be ignored.
- The sessions that appear to be commercial sales pitches for a given product or company will automatically be rejected from the formal SIS program, and will instead be referred to the ITS16 Sponsorship Development Manager to discuss presentation opportunities within a wider sponsorship / branding partner package. Enquiries to: **sponex.sales@itsworldcongress2016.com**
- Upon submission, you will be requested to provide the following information:
  - Organiser's full contact details
  - Topic, subtopic, and focus area
  - Session title
  - Session description
  - Name and contact details of moderator and 3 confirmed speakers (including job title, organisation, country and valid email address)
  - Further information about the session

Please note: Upon completion of your contribution, the system will generate an acknowledgment email with your Session number and confirming your contact details and chosen topic. This does not mean that the Session has been accepted.

Review of Submissions

REVIEW AND SELECTION OF DRAFT PAPERS

All draft papers submitted on time and in the correct format are sent to external expert reviewers who are asked to score papers according to the quality of the research or project being presented as well as to the topicality, comprehensiveness and clarity of the content. Authors will be notified of the outcome of their submission by email by **April 2016**. Drafts may be:

- **Accepted** immediately and invited to submit the full version by **April 2016**.
- **Rejected** with an explanation of the reasons - for rejected papers there is no presentation possibility during the Congress.
- **Conditionally Accepted** and asked to resubmit their paper by **June 2016**, after which a final decision of 'Accepted' or 'Rejected' will be made and the result sent to the author.

REVIEW AND SELECTION OF SPECIAL INTEREST SESSIONS PROPOSALS

The International Program Committee assesses the proposals for Special Interest Sessions that have been submitted on time and in the specified format and selects those that it wishes to accept initially together with a short reserve list. Session organisers will be notified of the outcome of their submission by **April 2016**. For unsuccessful proposals there will be no further opportunities to stage a Session at the Congress. Session organisers might be requested by the Program Committee to improve or fine-tune the description and/or the list of proposed speakers.

PRESENTER TASKS AND WORKLOAD

Presenting at the ITS 2016 World Congress involves a significant amount of preparation, including the submission of a paper (for authors presenting a paper), a PowerPoint presentation and coordination with the moderator of the session. This preparatory work is essential to maintaining the high quality standards of ITS Congresses. With hundreds of presenters involved in the program, it is very important that deadlines are met to ensure the preparation for the event is as smooth as possible.

REGISTRATION OF ALL SPEAKERS

A registration fee is associated with all ITS Congresses. All accepted and invited paper speakers and special session moderators and speakers are required to register on time and pay accordingly for the ITS 2016 World Congress. The main author or designated speakers are required to register when submitting their final paper. All speakers must register by **August 2016**. Failure to do this could result in losing your presentation slot.

KEY DATES

- Submission Deadline for all proposals: Deadline **25 January 2016**
- Review and selection procedure: **January – March 2016**
- Authors notified of outcome: **April 2016**
- Deadline for resubmission of Conditionally Accepted papers: **June 2016**
- Final paper submission: **August 2016**
- Speaker registration deadline: **August 2016**

Submission Deadline: Monday 25 January at 23:59 (midnight) Australian Eastern Daylight Saving Time

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Robert Rausch, TransCore Holdings, USA
Shelley Row, Shelley Row & Associates, USA
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