



# XVII ARGENTINE CONGRESS OF ROAD ADMINISTRATION AND TRAFFIC

## 9<sup>th</sup> EXPOVIAL ARGENTINA

OCTOBER 24<sup>th</sup> - 28<sup>th</sup>, 2016 - ROSARIO



# A VIEW INTO THE FUTURE OF ROADS AND TRANSPORT

XI INTERNATIONAL ITS CONGRESS

XXXVIII ASPHALT MEETING

III INTERNATIONAL SEMINAR ON CONCRETE PAVEMENT

XXXVIII REUNIÓN DEL ASFALTO



**CENTRO DE EVENTOS Y CONVENCIONES METROPOLITANO**  
City of Rosario, Santa Fe - Argentina

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During the Congress, the Congress Secretariat will operate at the Centro de Eventos & Convenciones Rosario,, where participants will be furnished with any kind of information.



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## » ORGANIZING COMMITTEE

### PRESIDENT:

**Eng. Guillermo Cabana**

Chairman of the Asociación Argentina de Carreteras

### VICE PRESIDENTS:

President of the Consejo Vial Federal

General Manager of the Dirección Nacional de Vialidad

## EXECUTIVE COMMITTEE

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**Eng. Nicolás M. Berretta**

### • DIRECTORS:

**Sr. Enrique Romero**

**Eng. Daniel Russomanno**

**Eng. Marcelo Ramírez**

### • GENERAL SECRETARY:

**Eng. Jorge Lafage**

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- Academia Nacional de Ingeniería
- Agencia Nacional de Seguridad Vial – Ministerio de Transporte
- Asociación Argentina de Túneles y Espacios Subterráneos (AATES)
- Asociación Española de la Carretera
- Asociación Latinoamericana de Capacitación e Ingeniería
- Asociación Mundial de la Ruta (AIPCR-PIARC)
- Asociación Uruguaya de Caminos
- Automóvil Club Argentino (ACA)
- Cámara Argentina de Consultoras de Ingeniería (CADECI)
- Cámara Argentina de la Construcción (CAC)
- Cámara Argentina de Transportistas de Asfalto (CADETA)
- Centro Argentino de Ingenieros (CAI)
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- Comité de Seguridad en el Tránsito de Buenos Aires - CO.SE.TRAN.
- Escuela de Graduados de Ingeniería de Caminos - U.B.A.
- Escuela de Ingeniería de Caminos de Montaña – U.S.J.
- Federación Argentina de Ingeniería Civil
- Federación Argentina de Entidades Empresarias del Autotransporte de Cargas (FADEEAC)
- Fondo Fiduciario Federal de Infraestructura Regional
- Fundación CENATTEV
- Instituto de Mecánica Aplicada y Estructuras (IMAE)
- Instituto de Normalización y Certificación (IRAM)
- Instituto Vial Ibero-Americano (IVIA)
- International Road Federation (IRF)
- Sociedad Argentina de Ingeniería de Tránsito (SAIT)
- Universidad de Buenos Aires – Facultad de Ingeniería
- Universidad de Morón - Facultad de Arquitectura, Diseño, Arte y Urbanismo (Instituto de Planeamiento del Tránsito, Seguridad y Educación Vial)
- Universidad Nacional de La Plata - Facultad de Ingeniería
- Universidad Nacional de Rosario - Facultad de Ciencias Exactas, Ingeniería y Agrimensura

## Mensaje

# » A VISION FOR THE FUTURE OF ROADS AND TRANSPORT



**Eng. Guillermo Cabana**  
President  
Asociación Argentina de Carreteras

It is an honor for me, as Chairman of the Organizing Committee, to extend this first invitation to the 17th Argentine Congress on Road Administration and Traffic.

Once again, we are getting closer to a new edition of this important road meeting, with the certainty that it will make, once again, a significant contribution to the entire society. Therefore, it is specially addressed to every road sector-related professional, technician and official, who will find a quality event, devoted to technology transfer, debates about ideas and exchange of knowledge with a group of national and international experts.

Following the lead of the last two editions, and fostering an even more federal participation, we have chosen the city of Rosario as venue of this 17th Congress on Road Administration and Traffic. Rosario is one of the three most important cities in the country, hosting, for the first time a Congress on Road Administration and Traffic.

Rosario promises to be the perfect place for a huge turnout due to its excellent location, its highway and airway connection with Buenos Aires and Córdoba, and its general tourist attractions. The venue undoubtedly meets all the requirements to be the perfect setting to hold a successful congress and a great exhibition, with the attendance of various professionals and technicians from every Argentine province and abroad.

This time, the theme is A VISION FOR THE FUTURE OF ROADS AND TRANSPORT. Within a multidisciplinary approach, we will deal with a wide range of topics, from logistics planning in cities or urban mobility solutions, to geometric design and technology innovation in road, bridge and tunnel construction, or the development of intelligent transport systems, just to mention a few examples.

Thus, we hereby invite every professional and technician from the road administration and transport sector, whether public or private, academic institutions and individuals to submit and share their work and experiences in order to have a congress that will become a place for knowledge exchange, with special conferences and presentations of local and international experts.

As it has been the case before, the Instituto Argentino del Cemento Portland (Argentine Institute of Portland Cement), ITS Argentina and the Comisión Permanente del Asfalto (Asphalt Standing Committee) will be part of the 17th Congress on Road Administration and Traffic and, within this framework, they will also organize the 3rd International Seminar on Concrete Pavement, the 11th International ITS Congress, and the 38th Asphalt Meeting “Eng. Marcelo Álvarez,” thus creating synergies that will surely leverage the topics to be dealt with and the turnout to the event.

The challenge is still to have a perfectly efficient and sustainable transport system, correctly meeting the growing demands of a developing country, always considering that ground transport plays a leading and irreplaceable role since it is, and will continue being by large, the main means of transport for people and goods throughout the region and the world, in general.

To achieve that, it is necessary to continue with the introduction of new technologies and human resources training, especially considering the environmental and social aspects of the activity.

The Congress sessions will be about introducing important infrastructure projects in the region as well as technical and management innovations, in addition to the presentation and discussion of several papers submitted, which will make up an excellent program for the interest of the attendees and the sector's scientific and technical progress.

As on previous occasions, the 9th Expovial Argentina 2016 is also simultaneously and supplementary held, developing technical and scientific activities. The features of the venue will enable a large exhibition, with settings that will suit every need of exhibitors and a perfect location to showcase road administration equipment, in particular.

This way, companies and professionals, both from the country and abroad, will release their latest IT and product and service breakthroughs related to road administration.

Previous experiences, particularly the 16th Argentine Congress on Road Administration and Traffic held in Córdoba in 2012, have proved that these events have exceeded our country's borders to become regional and international events, where international input and participation enrich their content and optimize the exchange of technology, knowledge and experiences.

This first communication details the most important organizational aspects of the 17th Argentine Congress on Road Administration and Traffic, as well as the general guidelines of the event so that you can plan your participation in advance.

Against this background, I once again invite professionals and technicians, teachers, students, investigators, businessmen, consultants and officials from every level, both country and region-wide, to take part of this new issue.

We are convinced that it will be the most important meeting of Argentine and Ibero-American road administration of 2016, a forum of ideas based on the challenges we need to face over the next years.

So, and under the motto that has summoned us throughout these years, "More and better roads," I invite you to meet once again in a friendly and welcoming environment, in the city of Rosario during October 24-28, 2016.



**Ing. Guillermo Cabana**  
*President*  
Asociación Argentina de Carreteras



## » MESSAGE FROM THE PRESIDENT OF THE ARGENTINE INSTITUTE OF PORTLAND CEMENT **INTERNATIONAL SEMINAR ON CONCRETE PAVEMENTS**

In the expectation of becoming one of the most important technical forums of 2016, the 17th Argentine Congress on Road Administration and Traffic will be held next October in Rosario. The event will bring together technicians, professionals and officials from the road sector, creating the appropriate setting to be updated on the latest news in technology and science, by means of the eight Specific Areas of the Congress.

These different players, involved in road maintenance, construction and design, will meet in order to exchange their experiences, improvement proposals and vast knowledge.

At the Instituto del Cemento Portland Argentino (Argentine Institute of Portland Cement) we strongly believe that we must stay on the path of natural resource sustainability and efficiency, creating a system of modern, reliable and safe roads; thus expanding the transport infrastructure required in our country to have an increasingly more productive society, with focus on improving the quality of life of inhabitants from the different regions and the clear thought of continuously fostering economic growth.

However, said growth should be accompanied by a strong commitment to create a network of training, innovation and transfer of technology. For this reason, we have decided to go hand-in-hand with this transfer and education process by holding the “3rd International Seminar on Concrete Pavement,” within the framework of this year’s Congress. Well-known national and international experts will share with us the latest trends and developments of rigid pavement and different applications. Topics related to construction projects, new materials, sustainable practices and environmentally friendly solutions will also be discussed.

The event, addressed to professionals in charge of projects, construction or project management in our country, will be specially helpful to assess and discuss the different alternatives so as to further work and improve the systems used in our country.

The Argentine Institute of Portland Cement invites you to take an active part in the 17th Argentine Congress on Road Administration and Traffic, since it will be a great opportunity to access the latest and most innovative technologies showcased by the best experts in the field.

**Sr. Enrique Romero**

*Director*

Instituto del Cemento Portland Argentino



**Ing. Daniel Russomanno**  
Presidente ITS Argentina

## » MESSAGE FROM THE PRESIDENT OF ITS ARGENTINA **INTELLIGENT INFRASTRUCTURE AND MOBILITY**

The non-profit Civil Association, ITS Argentina, founded in 2000, is pleased to invite you to the 11th International ITS Congress, to be held simultaneously with the 17th Congress of Road Administration and Traffic, organized by the Asociación Argentina de Carreteras. The topics to be discussed on this occasion will be varied and new: Open Roads, Internet of Things, Cooperative Systems, Use of Social Media, Big Data, Open Data, V2V, V2I and V2X Communications, Electric Cars, Mobile Apps, Smart Phones will be some of the innovative topics to be discussed in the event, which will focus on climate change, road safety and national production.

International and local experiences will be shared by the authoritative word of experts, specially invited to provide their broad and extensive knowledge about these key issues.

Economic growth within a framework of development with social integration requires energy, basic transport infrastructure, communications networks and intelligent systems, based on the decision-making dynamics demanded by today's regional and global context. In this underserved environment, the concept "Intelligent Transport Systems" – so-called "ITS Technology" – represents an essential tool to be included in any strategic and systemic planning.

The implementation of these interoperable, innovative and creative systems provides an essential mechanism to meet the suggested goals and plays a key role in ensuring a sustainable future as regards mobility, the environment, road safety, energy efficiency, national production and the economy, in general.

Nevertheless, the paradigm of ITS Technology is very hard to explain because it includes parameters that are unknown to many of us. This happens because, most times, the means for the ongoing analysis of its behavior are insufficient and it is not easy to prove the large correlation between its correct use and socio-economic needs. However, due to the fact that any political and social project is expected to have quick results, it is necessary to raise the concern about, and to efficiently care for, the performance of management systems, which must necessarily include ITSs.

Against this background, it is vital to plan the use of ITS throughout any mobility project, starting with an up-to-date accurate diagnosis and performing risk and scenario analysis with efficient data collection.

Another important issue to be dealt with is the Vision Zero concept, fostered by our associations and ITS. Designers, users, Government officials, public and private companies should work together and become accountable for their actions to improve mobility. Every actor involved should work towards a safe, "clean" and efficient mobility.

Therefore, we invite you to participate and submit technical papers, directly contributing to mobility and related-infrastructure sustainable and intelligent development.

**Eng. Daniel G. Russomanno**  
*President*  
ITS Argentina





**Ing. Marcelo Ramírez**  
Presidente CPA

## » MESSAGE OF THE PRESIDENT OF THE ASPHALT STANDING COMMITTEE **XXXVIII ASPHALT MEETING**

**We are once again pleased to invite professionals and technicians from the sector to participate in the 38th Asphalt Meeting “Eng. Marcelo Álvarez,” to be held in the city of Rosario next November, 2016.**

We are particularly pleased to return to the city of Rosario with a history largely connected to our activity and for being a university hub with outstanding participation in the road sector.

We are convinced that the exchange of experiences on new technology and on the best use of asphalt during these sessions will encourage and foster research and strengthen knowledge for a better sector development.

Technology and research are two of the main topics of this meeting so we reassure the Asphalt Standing Committee’s commitment to collaborate with the exchange of knowledge, technology and experience, as the means to achieve excellence in the road sector.

The debate of these sessions will undoubtedly focus on the latest technologies in asphalt pavements throughout the world.

We bet on the activity’s sustainable development, environment protection, efficiency and technology innovation.

As in the last editions, the 38th Asphalt Meeting will be jointly held with the 17th Argentine Congress of Road Administration and Traffic, which will enable participants to exchange experiences and gain expertise through other visions of the road activity in our country.

The Board of Directors of the Asphalt Standing Committee invites you to take an active part in this event that will surely contribute to improve the sector’s performance and will provide great input for professional growth.

**Eng. Marcelo Ramírez**  
*President*  
Asphalt Standing Committee

## » INTRODUCTION OF THE CONGRESS

Argentine Congresses of Road Administration and Traffic are a forum to discuss and exchange experiences for all those professionals and technicians involved in road management and traffic issues, both in the private or public sector, and in rural or urban areas.

They are also a great opportunity for all those involved in road planning, design, construction, maintenance, management and safety to share different experiences and enrich with the knowhow of both Argentine and foreign colleagues. This year's motto is "A View into the Future of Roads and Transport". An excellent technical agenda will cover all those topics related to road administration and traffic, in a broad and multidisciplinary approach.

As in the last edition, ITS Argentina (Intelligent Transport System), the Instituto Argentino del Cemento Portland (Argentine Institute of Portland Cement) and the Comisión Permanente del Asfalto (Asphalt Standing Committee) will jointly organize the III International Seminar on Concrete Pavements, the XI ITS International Congress and the XXXVIII Asphalt Meeting "Eng. Marcelo Álvarez" respectively, all of which will enhance and leverage the development of the event, turning Rosario City into the meeting point of the Argentine and Latin American Road Administration sector.

Argentine Congresses on Road Administration and Traffic have already overcome national boundaries and, therefore, this XVII Argentine Congress on Road Administration and Traffic will be one of the most important technical forums of 2016.

## » OBJECTIVES OF THE CONGRESS

- 01.** To promote a suitable space to share the latest technological and scientific innovations through the Congress Specific Sessions.
- 02.** To update, increase or enhance knowledge and exchange experiences among professionals in the broad field of road works.
- 03.** To learn about new technologies regarding the design, construction and management of pavements, basic works, artworks, transportation, urban mobility, environmental issues and road safety.
- 04.** Exchange opinions regarding those alternatives which prove to be more convenient so as to generate economic resources and financing methods.
- 05.** To know and discuss the advances in the new road management methods, to introduce new construction techniques for road works, to exchange experiences on the road maintenance systems, in order to optimize construction and maintenance costs and achieve the lowest transport cost.
- 06.** To discuss different ways to improve road integration among the countries of the region, benefiting from the attendance of colleagues from neighbor countries.
- 07.** To encourage discussion around safety issues in connection with the UN Decade of Action for Road Safety document.
- 08.** To analyze solutions enabling the ongoing transitivity of rural roads, and its impact on the national productive and logistics system.
- 09.** To analyze traffic organization, planning and management, related to passenger or cargo vehicles, both in rural and urban areas.
- 10.** To exchange experiences related to intermodal passenger transport and logistics.

## » BACKGROUND

For more than 90 years now, the Argentine Congresses on Road Administration and Traffic have been gaining a significant relevance as a benchmark forum in the road and transportation sector.

In the last editions, these congresses have undoubtedly earned international recognition, thus overcoming national boundaries. This is proved by their great attendance, including international representatives from the five continents.

In 1922, through an initiative of the Touring Club Argentino, the first edition was held in the City of Buenos Aires, directly organized by the National Road Administration Directorate. Later on, from 1929 until 1940, the same organizers held three other congresses.

Several international and local developments resulted in the discontinuation of these congresses, but they did not undermine the determination of the people involved in the organization, who, after overcoming the shortcomings, resumed the congresses.

So, in the 3rd Annual General Meeting of the Federal Road Board it was decided to encourage the scheduling of a new edition. As a result of this impulse, between November 5th and 13th, 1964, the 5th Road Administration Congress was held in the City of Embalse de Río Tercero, Córdoba, and the name “Argentine Congress of Road Administration and Traffic” was then coined.

Simultaneously, the Standing Committee was set up to organize these congresses, chaired by the President of the Federal Road Board, agency responsible for its co-organization ever since. From there on, 12 new editions of these congresses were held, as well as two pre-congresses, the last of which was organized in 2014.

Each edition had a bigger turnout, with a growing number of national and foreign professionals and technicians attending the event. The last Congress, held in the Complejo Ferial of the City of Córdoba, gathered more than 1,400 professionals and technicians from more than 15 different countries. Over 150 papers were discussed during the Congress, out of more than 200 which were submitted. Likewise, a special note should be made at the special lectures delivered by leading experts from our country and Germany, Australia, Austria, Brazil, Chile, Colombia, Spain, United States of America, France, Italy, Mexico, United Kingdom and Uruguay.

We should also mention the huge success of the Expovial Argentina 2012, a road exhibition visited by more than 4,900 professionals, with more than 75 domestic and foreign exhibitors.

### The following congresses have been held to date:

- 1922: I National Congress on Road Administration, in Buenos Aires.
- 1929: II National Congress on Road Administration, in Buenos Aires.
- 1937: III National Congress on Road Administration, in Buenos Aires and Córdoba.
- 1940: IV National Congress on Road Administration, in Buenos Aires and Mendoza.
- 1964: V Argentine Congress on Road Administration and Traffic, Embalse Río III. – Córdoba.
- 1968: VI Argentine Congress on Road Administration and Traffic, in Mar del Plata.
- 1972: VII Argentine Congress on Road Administration and Traffic, in Mendoza.
- 1977: VIII Argentine Congress on Road Administration and Traffic, in Buenos Aires.
- 1981: IX Argentine Congress on Road Administration and Traffic, in Buenos Aires.
- 1985: X Argentine Congress on Road Administration and Traffic, in Buenos Aires.
- 1992: XI Argentine Congress on Road Administration and Traffic, in Buenos Aires.
- 1007: XII Argentine Congress on Road Administration and Traffic, in Buenos Aires.
- 2001: XIII Argentine Congress on Road Administration and Traffic, in Buenos Aires.
- 2005: XIV Argentine Congress on Road Administration and Traffic, in Buenos Aires.
- 2007: Pre XV Argentine Congress on Road Administration and Traffic, in Buenos Aires.
- 2009: XV Argentine Congress on Road Administration and Traffic, in Mar del Plata.
- 2012: XVI Argentine Congress on Road Administration and Traffic, in Córdoba.
- 2014: Pre XVII Argentine Congress on Road Administration and Traffic, in Buenos Aires.

## » SPECIFIC AREAS

To better organize the development of the XVII Congress of Road Administration and Traffic, the technical and scientific activities will cover eight different topics.

Professionals and technicians will then have a chance, not only to share their experiences and proposals, but also to have peer discussions on the different aspects of the road, traffic and transport in their different modes.

Each area will include specific topics but will not be limited to them.



## » ROAD NETWORK MANAGEMENT



**This Area will encompass all topics related to road network operation aspects and those connected to the necessary tools to optimize the resources at stake.**

It will discuss regulation issues pertaining to legislation in all its aspects; traffic monitoring, assessment and allocation, not only as a management efficiency measure but also as a tool for reasonable planning; different methods to ensure feasible economic resource sources; different alternatives to road financing; interrelation between road and other means of transport; the need for regional integration works, etc.

This Commission encompasses all the topics related to rural road problems, from their role definition to the need to structure a system enabling their sustainable financing.

**The Commission topics include, but are not limited to:**

- Low traffic roads
- Tertiary network development, improvement and financing
- Economic sourcing
- Municipal management in tertiary networks
- Road and traffic legislation
- Vehicle weight and dimension monitoring and control
- Monitoring, Demand Estimates and Traffic Assessment
- National and regional integration road works
- Payment by user. Alternatives. Tolls
- Road planning and programming
- Traffic forecast and allotment in road networks
- Road networks and multimodal transport
- Relation between private users and the State
- Traffic management system
- Capacities and service levels
- Roundabouts

**Coordinators:**

**Eng. Jorge Felizia**

**Eng. Jorge Lafage**

## » LOGISTICS AND TRANSPORT



**The topics included in this area are those related to the transit of goods and people (passengers), and aim to contribute to the improvement and greater efficiency in the operation of the services, within the framework of sustainable development and optimization the resources used.**

It includes aspects related to regulatory and legal framework, transport plans, financial and operational management and efficiency, coordination between different modes, equipment companies cargo and passenger transportation and sustainable use of resources, alternative modalities depending on the type of loads and distances covered between source and destination.

### **These Commission topics include:**

- Strategies for the medium and long term: designing a new governance for transport
- Legal framework and regulatory simplification of loads transport
- Transport, regional economies and economic growth: investment in infrastructure from a macro view
- Public-private partnership in the development of transport infrastructure
- The challenge of co-modality
- Streamlining of border crossings
- The role of logistics in organizing transportation
- The new paradigm of sustainable transport (Avoid, Shift, Improve)
- Green Logistics
- Corporate social responsibility in transport
- New technologies applied to the sector
- Large vehicles carrying capacity. Its viability in the operation of transports in Argentina. Experiences in the region
- Transport of dangerous goods
- Mobility in large urban centers. Case analysis and proposals

### **Coordinators:**

**Dra. Silvia Sudol**  
**Sr. Néstor Fittipaldi**

## » URBAN MOBILITY



Nowadays, and due to the high motorization level, medium and large concentrations of human beings have to face countless problems related to city traffic and transport, forcing us to find new and more efficient traffic and transport organization and rationalization systems.

Improving the movement of vehicles and public passenger transport, as well as proper road design and road use priority will help us prevent the worsening of the current situation. This Commission will provide the proper environment to discuss all aspects related to urban road administration as well as the interrelation between city and rural traffic.

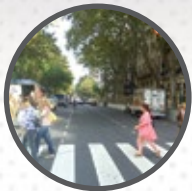
### **The Commission topics include, but are not limited to:**

- Access to Urban Centers
- Closed road and traffic detours
- Semi-public circulation areas. (Industrial complexes, gated neighborhoods)
- Paid parking lots and control of traffic violations in public streets.
- Interference of urban networks with fast roads, Highways, Railways
- Traffic Organization in Urban Areas
- Urban planning
- Freight Transport in Urban Centers
- Urban Center Traffic Safety
- Public Transport
- Exclusive lanes
- Bicycle pathways
- Facilities for people with reduced capabilities
- Motorcycles

### **Coordinators:**

**Eng. Oscar Fariña**  
**Eng. Jorge Felizia**

## » ROAD SAFETY



The high rates of accidents in the region in general and in Argentina in particular, are demanding that a thorough analysis of the various aspects that make up the Road Safety is made. Therefore, it is necessary to discuss this topic in detail, from safety legislation, policies and education, to data collection and analytical methods, including the analysis of different road elements that may increase the current safety level.

The Commission topics include, but are not limited to:

### Role of the State

- Traffic control
- Emergentology
- Information on traffic accidents / accidentological indexes
- Road Safety Legislation
- Plans and Strategies
- Road Police
- Road safety policies
- Road Safety Education Policies
- Traffic accident prevention
- Driving licensing systems
- Audits and inspections on road safety

### Means of Communication

- Devices to enhance safety
- Vulnerability
- The environment and road safety
- Road safety interventions in highways
- Urban road safety interventions
- Innovative Proposals in Road Safety
- Relationship between traffic and roads
- Vertical and Horizontal Signaling
- Systems to increase visibility
- Road safety on bridges, tunnels and access
- Consistency of design and road safety

### Users

- Fitness, Health and Road Safety
- Drivers' Behavior
- Driving under anomalous conditions
- Transport and Road Safety
- The media and Road Safety
- Vehicles and Road Safety
- Passive and active vehicle safety
- Knowledge transfer in the field

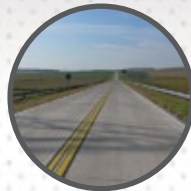
## Coordinators:

**Arq. Eduardo Lavecchia**

**Eng. Juan Emilio Rodríguez Perrotat**

**Eng. Mario Leiderman**

## » PAVEMENTS



In this area will take place the **III International Seminar on Concrete Pavement and the XXXVIII Asphalt Meeting "Eng. Marcelo Alvarez"**.

These meetings will cover all the aspects that make the design, construction, maintenance and rehabilitation of pavements in its different types, as well as the various aspects of the basic works and evaluation of both, structural and surface characteristics, and also the equipment needed for such purposes.

The Commission topics include, but are not limited to:

- Energy Savings
- Superficial characteristics of road surfaces
- Construction and maintenance
- Pavements structural design
- Essays, standards and technical specifications
- Assessment equipment
- Soil stabilization: mechanics, physics and chemistry
- Structural capacity assessment
- Superficial characteristics assessment
- Road surfaces and users' comfort
- Materials Characteristics and use
- Deterioration models
- New materials and developments
- Low-cost road surfaces for low-traffic rural roads
- Permeable road surfaces
- Basic works project, construction and reconditioning
- Material recycling
- Innovative technical solutions
- Reconditioning techniques
- Trends in road surface management

## Coordinators:

**Eng. Diego Calo**

**Eng. Norberto Cerutti**

## » ROAD PROJECTS



**This committee will discuss all the aspects related to efficient and safe road traffic from the very moment the project begins to be discussed.**

It will cover all the issues directly related to geometric design of roads, design rules and standards. In addition, the aspects that make the design, construction and maintenance of bridges and tunnels as well as techniques in the uses of materials, evaluation methods, management of artworks and environmental management projects will be discussed.

**The Commission topics include, but are not limited to:**

- Anti seismic design of structures
- Design of Highways and Motorways
- Structural design of artworks
- Geometric design of rural and urban roads
- Distributors and Intersections
- Design standards.
- Management of roads in adverse weather conditions (ice, snow, fog)
- Bridges maintenance
- Preventive measures on the road during winter
- Long-span bridges
- Rehabilitation and reinforcement of structures
- Comprehensive bridge management systems
- Snowplowing and ice control technology
- Tunnel construction and maintenance
- Use of road materials and local resources
- Using computer tools for the design of roads

### Coordinators:

**Eng. Tomás del Carril**  
**Eng. Rodolfo Goñi**  
**Eng. Norberto Salvia**

## » INTELLIGENT TECHNOLOGY



Within this event, it will be presented and discussed the development and use of Intelligent Transport Systems, as well as all the aspects that make the entrance of new technologies, the promotion of applied research and technological transference between sectors and in an international level.

**The Commission topics include, but are not limited to:**

- Risk analysis
- Quality assurance
- Training in new technologies
- ITS development in Argentina and Worldwide
- ITS project assessment
- Research and development
- Standardization and certification
- Monitoring and control systems
- Lighting Systems
- Cooperative systems
- Weight and dimension control systems
- Information systems for road users
- Toll electronic payment systems
- Comprehensive systems
- Rail, maritime, port and airport transport intelligent systems
- Inter-urban intelligent systems
- Urban intelligent systems
- Intelligent parking systems
- ITS Systems for tunnels and bridges
- Multimodal systems
- Automotive telematics
- Technological transference
- Control Centers

### Coordinators:

**Eng. Daniel Russomanno**  
**Eng. Jorge Lafage**

## » SUSTAINABLE TRANSPORTATION



Climate change is one of the biggest global problems facing the development of the future, and transport (freight and passengers) is one of the main responsible for the emission of greenhouse gases, so the sector has a big responsibility in the fight to achieve an effective climate agreement and provide an incentive towards sustainable development.

The Republic of Argentina has a strong commitment to action, which is embodied by promoting initiatives to improve the sustainability of the transport sector by promoting projects that limit the growth of emissions, as long as they do not compromise national development.

### The Commission topics include, but are not limited to:

- The future of transportation
- The challenge of Big Data in sustainable transport
- National inventories of greenhouse gases. Experiences
- Integration strategies and adaptation plans
- Analysis of global best practices related to mitigation
- Implementation of Low-Emissions Development Strategies (LEDS)
- Nationally Appropriate Mitigation Actions (NAMAs)
- Measurement-Reporting-Verification (MRV) of greenhouse gases emissions (GHGs)
- The process of formulation of climate change policies and financing options
- Education, research and technological transference to address the challenges of climate change in the transport sector
- Analysis of potential scenarios to reduce costs and collateral benefits
- Energy and clean mobility

### Coordinadores:

Lic. Haydee Lordi  
Eng. Carlos Brunatti  
Dra. Beatriz Zuazo

## » TECHNICAL PAPERS SUBMISSION METHOD

Submitted papers will strictly conform to the following conditions:

- The paper should be submitted using the application on the Congress Website([www.congresodevialidad.org.ar](http://www.congresodevialidad.org.ar)) in .DOC or .RTF format.
- All the authors should be pre-registered upon abstract submission.
- Submission will be on A4 paper sheet, Arial 11 font. Margins will be: Top: 3.50 cm, Bottom: 2.50 cm, Left: 2.50 cm and Right: 2.50 cm. Page numbering will be placed on the lower right corner and will have the format: Page # - Page # of #. Line spacing: 1.15
- The paper will include a cover containing:
  - Paper title
  - Author(s)'s name and last name
  - Full postal address
  - Telephone number
  - E-mail address
- The Abstract should have not more than 300 words. The full paper text will not exceed 10,000 words (Abstract and bibliography, if any, excluded). This requirement should be clearly checked by the author before submission since failure to comply will be grounds for direct rejection.
- Graphs, photos, diagrams, or tables have to be inserted within the text in their corresponding place. None of them will be accepted separately.
- The official language of the Congress will be Spanish. All abstracts and final papers must be translated by the author into the official language.

### DEADLINES

- **By April 1st, 2016:**  
SUBMISSION OF ABSTRACTS
- **By July 1st, 2016:**  
SUBMISSION OF PAPERS



## RULES

The Asociación Argentina de Carreteras invites institutions, professionals and investigators involved in the different aspects of road administration to submit their papers in the different specific areas foreseen for the XVII Argentina Congress on Road Administration and Traffic.

01. The deadline to submit paper abstracts is April 1st, 2016. Papers should be submitted by that date through the application that is available on the Congress website [www.congresodevialidad.org.ar](http://www.congresodevialidad.org.ar). All the authors need to be pre-registered (payment of the registration fee is not required) before submitting papers.
02. Submitted papers have to be original and unpublished, i.e., papers that have not been published nor presented, at local or international level, at Congresses, Symposiums, Meetings, etc., that were held before the opening date of the XVII Argentine Congress on Road Administration and Traffic.
03. As an exception, the Organizing Committee may accept, at its own discretion, already published papers containing new relevant information and which are considered of significant interest.
04. Submitted materials should be papers and may include reports, communications, studies, experiences or work recommendations.
05. Paper authors expressly authorize the Organizing Committee of the XVII Argentine Congress on Road Administration and Traffic to publish the papers submitted to the Congress in proprietary issues of the Asociación Argentina de Carreteras with no need for further consent.
06. Papers submitted to the Congress may only be reproduced, either in part or in whole, by the authors with the explicit mention that they have been submitted to the XVII Argentine Congress on Road Administration and Traffic.
07. It is hereby established that the submission of a paper implies that its author or authors have completely agreed to the aforementioned terms and conditions without further ado.
08. The Organizing Committee, through its Technical Committee, will assess the papers to check compliance with each of the above requirements, as well as their content to proceed with the relevant selection process. Failure to comply with the submission terms and deadlines will be enough grounds for rejection with no need for further notice.
09. The Technical Coordination reserves the right to reject abstracts and or final papers.
10. Papers, which abstracts have been accepted, should be submitted by July 1st, 2016 through the same Web page application used for the abstracts.
11. Once the papers have been accepted, the Organizing Committee will select and assign them to the corresponding sessions of the Specific Areas, where they will be presented and discussed. This decision will be duly communicated to the paper author(s). It is an essential requirement that authors whose papers have been selected for presentation in the Specific Areas to be registered in the Congress by October 1st, 2016.
12. All accepted papers will be published in a CD to be delivered to every participant during the Congress.



## » TECHNICAL PAPERS AWARDS

In order to recognize the effort, devotion and technical and scientific input of the authors, the Organizing Committee of this XVII Argentine Congress on Road Administration and Traffic has decided to award prizes and special mentions.

Once approach to the topic, and will discard those limited to a simple description of Paper Submissions and/or methods. Moreover, the Committee will value those papers from which a universal or general practical application conclusion may be reached. Aspects that enable the content to go beyond the simple theory statement and that present results validated against practical experiences will be assessed. Likewise, the statement accuracy and precision, the development and conclusions, and the presentation clarity will be analyzed. Mainly, the Committee will assess if the paper proposes immediate application methods, methodology and/or Paper Submission explicitly generating benefits for the community.

As it can be seen below, this initiative of the Asociación Argentina de Carreteras of delivering the traditional prizes has been supported by the Argentine Institute of Portland Cement (Instituto del Cemento Portland Argentino), setting an interesting amount of awards intended to match the passion those professionals put in improving the technical and scientific levels of the different fields related to these Congresses.

### Awards of the XVII Argentine Congress on Road Administration and Traffic

- 1st Award: **US\$ 8.000.-**
- 2nd Award: **US\$ 4.000.-**
- 3rd Award: **US\$ 2.000.-**
- 4th Award: **Diploma**
- 5th Award: **Diploma**

\*\* Granted by the Asociación Argentina de Carreteras

### Award to the best paper on rigid road surfaces

- 1st Award: **US\$ 3.000.-**

\*Granted by the Argentine Institute of Portland Cement (Instituto del Cemento Portland Argentino)

## » ACTIVITY SCHEDULE

### SUNDAY 23 MATCH PLAY 18 HOLE GOLF TOURNAMENT \*

#### MONDAY 24 (DAY 1)

10:00 - 13:00	Accreditations
15:00 - 18:00	Accreditations
18:30 - 20:00	<b>OPEN CEREMONY</b>
20:00 - 20:30	<b>OPEN 9º EXPOVIAL 2016</b>
20:30 - 22:00	<b>WELCOME COCKTAIL *</b>

#### TUESDAY 25 (DAY 2)

08:00 - 09:00	Accreditations
09:00 - 11:00	Congress´ Sessions
11:00 - 11:30	Coffee break - Visit to stands
11:30 - 13:00	Congress´ Sessions
13:00 - 15:00	Lunch (free)
15:00 - 17:00	Congress´ Sessions
17:00 - 17:30	Coffee break - Visit to stands
17:30 - 19:00	Congress´ Sessions

#### WEDNESDAY 26 (DAY 3)

09:00 - 11:00	Congress´ Sessions
11:00 - 11:30	Coffee break - Visit to stands
11:30 - 13:00	Congress´ Sessions
13:00 - 15:00	Lunch (free)
15:00 - 17:00	Congress´ Sessions
17:00 - 17:30	Coffee break - Visit to stands
17:30 - 19:00	Congress´ Sessions

#### THURSDAY 27 (DAY 4)

09:00 - 11:00	Congress´ Sessions
11:00 - 11:30	Coffee break - Visit to stands
11:30 - 13:00	Congress´ Sessions
13:00 - 15:00	Lunch (free)
15:00 - 17:00	Congress´ Sessions
17:00 - 17:30	Coffee break - Visit to stands
17:30 - 19:00	Congress´ Sessions
20:30 - 23:30	<b>CONGRESS HONOR DINNER **</b>

#### FRIDAY 28 (DAY 5)

09:00 - 11:00	Congress´ Sessions
11:00 - 11:30	Coffee break - Visit to stands
11:30 - 13:00	Congress´ Sessions
13:00 - 13:30	<b>CLOSING EXPOVIAL 2016</b>
13:30 - 14:30	<b>CLOSING CEREMONY</b>

\* leisure activities

## » REGISTRATION

You can pre-register to the Congress by filling out the **PRE-REGISTRATION FORM** at [www.congresodeviaalidad.org.ar](http://www.congresodeviaalidad.org.ar)

To complete your **REGISTRATION** and participate in the Congress, you need to make the payment online, either at [www.congresodeviaalidad.org.ar](http://www.congresodeviaalidad.org.ar) or by the other accepted methods of payment.

## REGISTRATION FEE

CATEGORIES	Before July 1st, 2016	After July 1st, 2016
Non-member Congress Participant	u\$s 400	u\$s 450
Member Congress Participant (*)	u\$s 250	u\$s 300
Officials (**)	u\$s 300	u\$s 350
Students (***)	u\$s 100	u\$s 120
Escorts	u\$s 150	u\$s 170

### Paper author Bonus (up to 2 author per paper) 20% off

(\*) To be considered a Member Congress Participant, it will be necessary to prove your Membership to the Asociación Argentina de Carreteras (with the corresponding fee paid), or to be a member of the International Road Federation or the World Road Association (AIPCR/PIARC).

(\*\*) All officials of international, national, provincial and municipal character not specially invited by the Organizing Committee must prove that status.

(\*\*\*) This fee applies only to advanced students of disciplines related to the topics of the XVII Congress, providing convincing evidence of that condition. This preferential fee will allow them to attend all technical conferences and also the Expovia Argentina 2016, but it does not entitle participation in the social activities related.

## PAYMENT METHODS

### • Cash:

Directly at Asociación Argentina de Carreteras.

### • Bank wire transfer:

In pesos to the Asociación Argentina de Carreteras current account:

#### Banco Galicia

Current Account Number: 37818/7/037/9

CBU 0070037520000037818793

(CUIT 30-53368805-1)

### • Argentine Checks:

On behalf of Asociación Argentina de Carreteras. Non-negotiable check.

### • Visa Credit Card :

- at the Asociación Argentina de Carreteras or through the Web page

## CANCELLATIONS

The cancellation of registration is subject to the **following conditions:**

#### • CANCELLATION BEFORE SEPTEMBER 23RD 2016:

50% of the amount paid will be refunded.

#### • CANCELLATION AFTER SEPTEMBER 23RD 2016:

No right of return of any amount is recognized.

Note: To complete the registration is required to send proof of transference identifying the people registered by that payment to: [contable@aacarreteras.org.ar](mailto:contable@aacarreteras.org.ar)

## WHAT DOES IT INCLUDE?

### For Participants:

- Attendance at the Opening Ceremony
- Attendance at all the sessions of the XVII Argentine Congress on Road Administration and Traffic
- Attendance at all the III International Seminar on Concrete Pavements sessions
- Attendance at all the XI International ITS Congress sessions
- Attendance at all the XXXVIII Asphalt Meeting sessions
- Attendance at technical visits (pre-registered)
- Access to the Expovial

### Congress' Documentation:

- Abstract Book
  - CD with Papers
  - Revista Carreteras [Carreteras Magazine]
  - Congress Schedule
  - Lecturers Catalog
- Welcome Cocktail Party
  - Golf Tournament (with pre-registration)
  - Closing Dinner
  - Preferential Rate at the Congress' Hotels
  - Attendance Certificate

### For Students:

- Attendance at the Opening Ceremony
- Attendance at all the sessions of the XVII Argentine Congress on Road Administration and Traffic
- Attendance at all the III International Seminar on Concrete Pavements sessions
- Attendance at all the XI International ITS Congress sessions
- Attendance at all the XXXVIII Asphalt Meeting sessions
- Attendance at technical visits (pre-registered)
- Access to the Expovial

### Congress' Documentation:

- Abstract Book
  - CD with Papers
  - Revista Carreteras [Carreteras Magazine]
  - Congress Schedule
  - Lecturers' Catalog
- Preferential Rate at the Congress' Hotels
  - Attendance Certificate

### For Escorts:

- Escorts' Schedule
- Attendance at the Opening Ceremony
- Access to the Expovial
- Welcome Cocktail Party
- Golf Tournament (with pre-registration)
- City Tour (with pre-registration)
- Closing Dinner
- Preferential Rate at the Congress' Hotels

## » GENERAL INFORMATION

### LANGUAGE



The official language of the Congress is **Spanish**. Special Lectures and Forum Sessions will have **simultaneous translation from English to Spanish**.

### SECRETARIAT

For further information those interested may contact:

#### ASOCIACIÓN ARGENTINA DE CARRETERAS

Av. Paseo Colón Nº 823 - 7º Piso  
(C1063ACI) Ciudad Autónoma de Buenos Aires  
República Argentina  
Tel/Fax: (+54 11) 4362-0898

[secretaria@congresodevialidad.org.ar](mailto:secretaria@congresodevialidad.org.ar)

[www.congresodevialidad.org.ar](http://www.congresodevialidad.org.ar)

#### • CONGRESS SECRETARIAT

##### Hernán Ramírez

[hramirez@aacarreteras.org.ar](mailto:hramirez@aacarreteras.org.ar)

##### Federico Andreon

[fandreon@aacarreteras.org.ar](mailto:fandreon@aacarreteras.org.ar)

#### • EXHIBITION

##### Analía Wlazo

[aw@tradeshowsa.com.ar](mailto:aw@tradeshowsa.com.ar)

## VENUE



CENTRO DE EVENTOS & CONVENCIONES ROSARIO

### CENTRO DE EVENTOS & CONVENCIONES ROSARIO

Junín 501 Local 1 / Alto Rosario Shopping

Rosario, Pcia. de Santa Fe

Tel.: Rosario (54 0341) 568 4000 / Bs. As. (54 11) 5648 1111

[contacto@metropolitanoros.com.ar](mailto:contacto@metropolitanoros.com.ar)

[www.metropolitanoros.com.ar](http://www.metropolitanoros.com.ar)



## » VENUE CITY

Rosario is one of the main urban centers of Argentina, and the largest city in the Province of Santa Fe. It is situated in the center-east of the country, on the right bank of the Paraná River, equally close to all the regions of Argentina.

Rosario is an strategic point in the South American Bi-Oceanic Corridor (pathway) that extends from the Atlantic (Brazil and Uruguay) to the Pacific Ocean (Chile) and in the Paraná River Waterway, joining the vast coastal region of Argentina (Provinces of Misiones, Corrientes, Entre Ríos, Chaco, Formosa and Santa Fe) and the Northern part of the country, which borders with Bolivia, Paraguay and Brazil. The city is, therefore, highly important within MERCOSUR (Southern Common Market).

With a population of approximately 1,200,000, the city of Rosario is part of an economically very important region as nearly 70% of the cereals production of the country is exported from the city port. There are highways that link it to Buenos Aires (300km; 186 miles), Córdoba (400 km; 249 miles) and to the city of Santa Fe (150 km; 93 miles) and it has an international airport.

Culture, entertainment, nature, good food and relax come together in this city that is cradle of several internationally renowned artists and athletes. Rosario offers a wide variety of touristic infrastructure and invites all visitors to travel through historical circuits that keep intact the different architectural styles of the early twentieth century.

It also has important museums and libraries, and its infrastructure includes architectonic circuits and walks along the boulevards and spacious parks that give the distinctiveness of a big city. The Flag Memorial is perhaps the starting point for a walk through the city center. The resort Costa Alta and Embarcadero is chosen to take walks on the banks of the river in the evenings.

The Independence Park and the Balneario La Florida are some of the many points of notoriety where it is possible to take bike rides, horseback riding and boating, among other activities. With a first class port, with extensive piers, it is worth seeing the dock cabotage and the grain elevators operating.

The meeting places, cultural and academic activities, fun and recreation, have the variety needed to satisfy all tastes and ages. Moreover, Rosario night is recognized as one of the most lively and cheerful, perfect to enjoy pleasant moments in the various bars, pubs and nightclubs in the city.

## WEATHER

Rosario weather is warm and humid throughout most of the year. It is classified as temperate Pampas, it is that the four seasons are fairly defined, although its winter is fairly mild, short and irregular: during this season are observed both cold and cool days, and even warm afternoons. It is very common during the winter months to have a good number of days where the maximum temperature exceeds 20 degrees.

Summers are hot, and high humidity can sometimes create suffocating days. There's a hot season from October to April, with temperatures from 18°C (64°F) to 36°C (97°F), and a cool season, varying between early June and the first half of August, with minimum average of 5°C (41°F) and average maximum of 16°C (60°F), with annual average temperatures ranging between 11°C minimum (51°F) and 24°C maximum (76°F). It rains more in summer than in winter, with an aggregate rainfall between 800 and 1300 mm per year.

### OCTOBER IN ROSARIO

Average maximum temperature °C	23,6
Average mean temperature °C	17,3
Average minimum temperature °C	10,9
Total Precipitation mm	91,8
Days of rain (≥ 0.1 mm)	9
Hours of sun	232,5
Relative humidity %	73

On the webpage [www.rosarioturismo.com](http://www.rosarioturismo.com) you will find all the necessary information to make your trip to Rosario and unforgettable one.



## ARGENTINA

With a vast extension of 3,757,407 km<sup>2</sup>, Argentina offers all kinds of climates and landscapes: from tropical climate, rainy and full of colorful vegetation, to freezing cold.

Located at the south of the Equator and to the west of Greenwich meridian, the Argentina Republic is also a bi-continental country, since it takes up part of the Americas and part of Antarctica.

Its American territory spans through the Southern Cone, bordering Bolivia and Paraguay to the North, Brazil to the Northeast, Chile to the West and South and Uruguay and the Atlantic Ocean to the East.

With approximately 50 MM inhabitants, Argentina is a sovereign state, organized as a representative and federal republic. It is divided in 23 provinces and the Autonomous City of Buenos Aires, capital of the country and seat of the federal government.



If you want to visit some of the regions of our vast country, please click on the link [www.turismo.gov.ar](http://www.turismo.gov.ar)



## » SOCIAL ACTIVITIES **GOLF TOURNAMENT**

A Match Play 18 Hole Golf Tournament (simultaneous start) is foreseen for players with national or foreign handicap for Sunday, October 23rd.

All Congress participants, booth exhibitors and special guests may take part of the tournament by pre-registering with the Congress Secretariat (until Thursday, October 20th).

A maximum number of 40 players have been set to be assigned in order of registration.

**The award ceremony will be performed during the Congress Honor Dinner**

## **ESCORTS' SCHEDULE**

Escorts of the participants to the XVII Argentine Congress on Road Administration and Traffic will be able to enjoy several activities and tours in the City of Rosario.

**Every suggested activity will have a group coordinator, who will cater for the needs of those taking part of the activity, always keeping them informed of every activity.**





## » 9º EXPOVIAL ARGENTINA 2016

The 9th Expovial Argentina 2016 will be held at the same time and in the same venue of the XVII Congress of Roads Administration and Traffic. It will bring together more than 110 stands, in a covered area of over 3,500 square meters. It will also have a great outdoor space for exhibition of machinery and equipment, where exhibitors can present their products to professionals from different countries, owners, operators, users and suppliers of technologies and services.

Besides construction companies, dealers, consultants, planners and municipal agencies you will also find spaces for national and provincial roads administration agencies, road safety agencies, governments, investors, suppliers, banks, transport business, traffic engineers, and professionals.

The latest indispensable technologies to increase productivity and competitiveness developed for the improvement of roads and transport in all its aspects will be exhibited. The 9th Expovial Argentina 2016 is aimed at all those involved in road work, right from the planning, development and implementation of projects, both in the public and private sectors, in Argentina and abroad.

### » BENEFITS FOR THE EXHIBITOR:

- The logo of its company will be included in the Congress web page with a link to its own web site.
- A free of charge Congress registration per booth.
- 10 invitations to the exhibition per square meter.
- Registration and participation in Business Discussions and Business Rounds to be carried out in the Exhibition's Venue.





## » WHY PARTICIPATE?

The 9th Expovial Argentina 2016 provides an opportunity to establish a direct relationship with the academic sectors, construction companies, consultants, equipment suppliers, materials and specific technologies in the transit, transport and infrastructure industry, resulting in the best meeting place to exhibit in a place that concentrates a public with decision making power

The main issues include road safety, intelligent technology, equipment and machinery for the construction of bridges and roads, concrete and asphalt applications, and others.

The exhibition access will be free of charge for all those attending the Congress and special guests during the whole day, and its timetable and location will enable a continuous interrelation among all activities performed.

The 9th Expovial Argentina 2016 will also have multi-purpose rooms where exhibitors may launch new products, perform demos or invite their customers to a special celebration.

The Congress of Roads and Traffic are unique in its kind, not only in the country but in Latin America. Participation is also a unique opportunity to generate business and technology diffusion, making contact with a dispersed and interesting market in continuous improvement and update.



### • BOOTH INFORMATION AND RESERVATION AT 9º EXPOVIAL TRADESHOW S.A.

Tucumán 1625, 2º A (C1050AAC)  
Ciudad de Buenos Aires, Argentina  
Tel/fax: (54-11) 4372-3519 o 4371-0083/5759

**Sra. Analía Wlazlo**  
[aw@tradeshowsa.com.ar](mailto:aw@tradeshowsa.com.ar)

## » MAP 9º EXPOVIAL



- PLANTA BAJA
- SALÓN CONTEMPORÁNEO
  - SALÓN INDEPENDENCIA
  - METROPOLITANO 1
  - METROPOLITANO 2
  - SALÓN LIBERTAD
  - HALL

- PLANTA ALTA
- SALÓN PANORÁMICO





# XVII ARGENTINE CONGRESS OF ROAD ADMINISTRATION AND TRAFFIC

9<sup>th</sup> EXPOVIAL ARGENTINA

OCTOBER 24<sup>th</sup> - 28<sup>th</sup>, 2016 - ROSARIO



XI INTERNATIONAL ITS CONGRESS

XXXVIII ASPHALT MEETING

III INTERNATIONAL SEMINAR ON CONCRETE PAVEMENT

XXXVIII  
REUNIÓN DEL  
ASFALTO



## A VIEW INTO THE FUTURE OF ROADS AND TRANSPORT

ORGANIZERS:

CO-ORGANIZERS:



Asociación Argentina de Carreteras



CONSEJO VIAL FEDERAL



Vialidad Nacional



ICPA



COMISIÓN PERMANENTE DEL ASFALTO



ITS

ADHERENTS



Asociación Española de la Carretera



ASOCIACIÓN URUGUAYA DE CAMINOS



CÁMARA ARGENTINA DE CONSULTORAS DE INGENIERÍA



ARGENTINA FUNDACIÓN



CADETA



AATES



IRAM



CÁMARA ARGENTINA DE LA CONSTRUCCIÓN



ACA



SAIT



UM-FADAU



Seguridad Vial



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FACULTAD DE INGENIERIA



Facultad de Ingeniería

METROPOLITANO

CENTRO DE EVENTOS & CONVENCIONES ROSARIO

[www.congresodevialidad.org.ar](http://www.congresodevialidad.org.ar)