STATE OF NEW HAMPSHIRE
NH DEPARTMENT OF TRANSPORTATION

DATE: November 1, 2013

FROM: Keith A. Cota, PE
Chief Project Manager

AT (Office) Department of Transportation
Bureau of Highway Design

SUBJECT: PIARC INTERNATIONAL MEETING
OF WORLD ROAD ASSOCIATION
TECHNICAL COMMITTEE 3.2 –
DESIGN AND OPERATION OF SAFER
ROAD INFRASTRUCTURE
[WARSAW, POLAND MEETING – SEPTEMBER 30 – OCTOBER 4, 2013]

TO: Marty Vitale
Engineering Program Specialist
AASHTO Program for Engineering

MEMORANDUM

This memorandum is to provide you a summary of the recent five day PIARC meeting held at Warszawa, Poland. The meeting was held in conjunction with Polish International Road Safety Congress. The International Road Safety Congress started in the afternoon on October 2nd and concluded at noon on Friday, October 4th. This three-day joint Congress meeting was held at the beautiful Porczyńskich Gallery in the historic capital of Warszawa, Poland. In advance of this Congress meeting, the PIARC Technical Committee 3.2 for Design and Operation of Safer Road Infrastructure met on Monday, September 30th through noon on Wednesday, October 2nd at the Hotel Golden Tulip Conference Center in the business district of Warszawa, Poland to go over the committee’s work plan for the 2012-2015 program and to provide feedback to PIARC’s Task Force for the development of the World Road Association Road Safety Manual.

The focus of the Polish International Road Safety Congress was on “Building Road Safety Capacity” with the aim at improving knowledge and skills in raising the level of road safety and within the Polish Congress framework of the “Roads of Trust” program. The program began with a welcome by Lech Witecki, Poland’s General Director for National Roads and Motorways followed by PIARC’s Secretary General Jean-François Corté and World Bank Country Manager for Poland and the Baltic Countries, Xavier Devictor. Following the introductions, the stage was set for the Congress session with an overview of national road safety polices and case studies with presentations by Poland National Council of Road Safety (Maciej Mosiej), World Bank Road Safety Audit and Road Safety Study in Kazakhstan, Germany (Hans Joachim Vollpracht) and Victoria Roads, Australia (George Mavroyeni). The second plenary session consisted of a review of Safe
System Approaches and includes presentations by USA representative to the World Bank, Twia Addo-Ashong, the Polish General Directorate for National Roads and Motorways, Andrzej Maciejewski and European Commission, DG MOVE member Pawel Stelmaszczyk on the topic of smart infrastructure.

The next two days of the Congress meeting consisted of several focus session and discussions on the following engineering topics:

- **Road Safety Audit as a tool for safety of road traffic**
- ITS as effective tool in improving road traffic safety
- **Effective management of roads and traffic for sake of road traffic safety**
- Signs and variable message signs as a tool to improve road safety
- Effective management of roads and traffic for sake of road safety
- Shaping of safe behaviours of the participants of road traffic through infrastructural means, control and education
- **Driver Distraction and fatigue with a focus on road engineering solutions – contribute to the developing work**
- Engineering solutions and their influence on effectiveness and safety of road traffic
- **Vulnerable road users**
- Accident investigation – contribute to the developing update of the PIARC guidelines
- **Engineering solutions and their influence on effectiveness and safety of road traffic**
- Road Safety Manual PIARC

The attached program outlines the particular presentations for each of the topics noted above. Several members of the TC 3.2 Committee actively participated in each session and presented their counties experiences. I had the opportunity to attend the sessions shown in ‘italic’ above. Based upon the presentations and the emphasis of road safety audits, the European design, construction and operation process is very dependent upon the private market and the audit processes to ensure quality assurance/product acceptence for design and construction. The road safety audit and road safety inspection processes are put in place for an independent, owner review during critical phases of a project to ensure certain design elements and construction takes in to account the road user safety for the roadway users (vehicles, bicycles and pedestrians).

Prior to the Congress meeting on Monday, September 30th to Wednesday, October 2nd the TC 3.2 Committee proceed to grind forward on the work plan consisting of the three primary themes; TC 3.2.1 - Vulnerable Road Users, TC 3.2.2 - Revisions of the Association’s Accident Investigation Guidelines and TC 3.2.3 - Driver Distraction and Fatigue. The strategies outlined for TC 3.2.1 Vulnerable Road Users is to build on the last cycle’s efforts and to create guidelines for safer urban and interurban roads with the focus being on the needs of vulnerable road users including pedestrians, young people, cyclists, motorcyclists and others, and to revise the road safety audit and inspection guidelines and checklists for urban and interurban roads to incorporate safety knowledge for vulnerable road users. The outputs are to create new or updated guidelines and checklists, create new chapter(s) for the Road Safety Manual on accounting for the safety of vulnerable road users.

The strategies for TC 3.2.2 Accident Investigation Guidelines consist of a review the Association’s existing Accident Investigation Guidelines for engineers and the Human Factors
Guidelines to identify knowledge gaps and opportunities to upgrade and update the content. The output for this subcommittee will be to revise the Accident Investigation Guidelines, which take into consideration human factors information and all accident severity levels and to update chapters four to six of the Road Safety Manual.

The strategies for TC 3.2.3 Driver distraction and fatigue consist of addressing driver distraction and fatigue with the focus on engineering solutions (including road infrastructure, vehicle and road design solutions). The output is to look at case studies of successful strategies and practices and to provide technical content for the Road Safety Manual. I remain a member of the TC 3.2.3 for distracted driver and fatigue.

Over the course of next year, the TC 3.2 anticipates holding two meetings. The first meeting will be a TC 3.2 two day meeting to be held from May 19-21, 2014 in Brussels, Belgium with a one day joint seminar on May 21st to presentation on Belgian’s best practices in road safety. The second meeting location for the fall of 2014 continues to be discuss within executive PIARC and may be a joint ‘Congress’ session in Asia (i.e.: Thailand, Vietnam, China, Indonesia). The third meeting, prior to the World Congress meeting set for the fall of 2015 at Seoul, South Korea, is tentatively being scheduled to be held in Scotland in the spring of 2015.

Over the course of the year, I prepared a PIARC paper on the New Hampshire’s approach for road safety through the federal HSIP program (an implementation of the Federal program at State Level). This paper was accepted by PIARC and published in the October edition of Routes/Road magazine.

One very important role that I will be looking to meet is to be able to provide AASHTO and NCHRP research on the topics for the three focus areas previously noted above. As such, I will be seeking your assistance to help me to fulfill this responsibility. I do look forward to actively working with PIARC as AASHTO’s representative with special regards to the Technical Committee TC 3.2 over the course of the next several years. Should you have any questions, please don’t hesitate to call me. Thank you.
# Program

INTERNATIONAL CONGRESS  
„Building Road Safety Capacity“  
2-4 October 2013

## 2 October

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>12:00-14:00</td>
<td>Lunch</td>
</tr>
</tbody>
</table>
| 14:00-14:30 | **Opening speeches**  
1. GDDKIA – Lech Witecki, General Director for National Roads and Motorways, Poland  
2. PIARC – Jean-François Corté, Secretary General, PIARC  
3. World Bank – Xavier Devictor, Country Manager for Poland and the Baltic Countries |
| 14:30-16:00 | **Plenary session: National road safety policies - cases studies**  
Moderator: Radosław Czajski, Bank Światowy, Polska  
1. National Road Safety Programmes 2013-2020, Maciej Mosiej, National Council of Road Safety, Poland  
2. UN Global Action for road safety, Hans Joachim Vollpracht, World Bank Road Safety Audit and Road Work Safety in Kazakhstan, Germany  
3. Comparison of national road safety policies and plans - George Mavroyeni, VicRoads, Australia |
| 16:00-16:30 | Coffee break                                                          |
| 16:30-18:00 | **Plenary session: Safe System Approach**  
Moderator: Tawia Addo-Ashong, World Bank, Washington  
1. PIARC - Brendan Marsh, Main Roads Western Australia, Australia  
2. World Bank - Tawia Addo-Ashong, USA  
3. General Directorate for National Roads and Motorways – Andrzej Maciejewski, Poland  
4. European Commission, DG MOVE - Paweł Stelmaszczyk: Smart Infrastructure - instruments supporting infrastructural innovative solutions for the improvement of mobility and traffic safety in the framework of the EU Transport Policy (White Paper, TEN-T Guidelines and Connecting Europe Facility) |
| 18:00-19:00 | Dinner, Galeria Porządyskich                                              |
| 19:00-21:00 | Sightseeing of Warsaw -> Transfer to the hotel                           |

## 3 October

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
</tr>
</thead>
</table>
| 9:00-9:15 | Official Opening of the 2nd day of the Congress:  
Speech of the Minister of Transport, Construction and Maritime Economy, Mr Sławomir Nowak |
| 9:15-10:30 | **Room A**  
1. **Session: Road Safety Audit as a tool of safety of road traffic**  
Moderator: Marian Tracz, Cracow Technical University, Poland  
1. Methods of management of road infrastructure safety based on the risk, Kazimierz Jamroz, Gdańsk Technical University, Poland  
2. Road Safety Audit Guideline, Lise Fournier, Ministry of Transport, Canada Quebec  
3. Experiences in introducing road safety audit in Poland, Marian Tracz, Cracow  
4. The first road safety audit training courses in Hungary, Attila Borsos, Győr University, Hungary  
2. **Session: ITS as effective tool in improving road traffic safety**  
Moderator: Marek Liwin – ITS Poland  
1. Road traffic safety and ITS - review of EU projects, Wojciech Suchorzewski, Warsaw Technical University, Poland  
2. ITS measures in the management of crisis events on the example of the City of Toronto, Roberto Stopnicki, Canada  
3. Use of ITS in road management on road network in England, Chris Lines, UK  
4. Actuarial research on the effectiveness of Collision Avoidance Systems FCW & LDW Ron Shachar, Israel |
| 10:30-11:00 | Coffee break                                                          |
| 11:00-12:30 | **Session: Effective management of roads and traffic for the sake of road traffic safety**  
Moderator: Mike Griffin, Federal Highway Administration, USA  
1. Polish experiences in conducting road inspections including identification of threats on the road, Marcin Budziński, Gdańsk Technical University, Poland  
2. Training and certification of Road Safety Experts for the application of Road Safety Audit and Road Safety Inspection procedures to selected secondary roads, Xavier Cucu, Peter Saleh, Belgium, Austria  
3. Road Safety Audit in Slovenia, Uros Brunec, Company for Development of Infrastructure Ltd., Slovenia  
4. Management of dangerous road sections in Estonia, AndresPibleht, Estonian Road Administration, Estonia  
4. **Session: Signs and variable message signs as a tool to improve road safety**  
Moderator: Wojciech Suchorzewski, Warsaw Technical University, Poland  
1. VMS EasyWay ESG4 (VMS Harmonisation), Antonio Lucas-Alba, Spain  
2. Influence of communication systems on driver’s behaviour in shaping messages on variable message signs, Tadeusz Rotter, Cracow Academy, Poland  
3. Assessment of message legibility on VMS tables, Kazimierz Jamroz, Gdańsk Technical University, Poland |
| 12:30-14:00 | Lunch                                                                 |

---

**INFRASTRUKTURA I ŚRODOWIÓS**

Projekt współfinansowany przez Unię Europejską ze środków Europejskiego Funduszu Rozwoju Regionalnego w ramach Programu Operacyjnego Infrastruktura i Środowisko
<table>
<thead>
<tr>
<th>Time</th>
<th>ROOM A</th>
<th>ROOM B</th>
<th>ROOM C</th>
</tr>
</thead>
</table>
| 14:00-15:30| **6. session: Effective management of roads and traffic for the sake of road traffic safety**
Moderator Kazimierz Jamroz, Gdańsk Technical University, Poland |
1. ASAP (Appropriate Speed Save All People) project dealing with speed management in Work Zones, Lorenzo Domenichini, University of Florence, Italy
2. Rural speed management (effective treatments for managing speeds on rural roads) and Urban arterial speed management, Blair Turner, ABB Group, Australia
3. Methodology of defining section of roads to cover with automatic surveillance over dangerous speed, Kazimierz Jamroz, Gdańsk Technical University, Stanisław Gaca, Cracow Technical University, Poland |
1. Human factors/spatial perception of the environment, Daniel Aubin, DESSAU inc. Canada Quebec
2. The big challenge to improve safety for vulnerable road users, Lars Ekman, Trafficverket, Sweden
3. Roads that 'talk' to the users, Obio Chinyere, Traffic Safety Council, Zimbabwe
4. Roads of Trust – the programme of protection of people's life and health on national roads, Łukasz Skorupski, GDDKiA, Poland |
|            | **5. session: Shaping of safe behaviours of the participants of road traffic through infrastructural means, control and education**
Moderator Lars Ekman, Trafficverket, Sweden |
| 15:30-16:00| Coffee Break                                                           |                                                                        |                                                                        |
| 16:00-17:30| **7. session: Engineering solutions and their influence on effectiveness and safety of road traffic**
Moderator Hans Joachim Vollpracht, World Bank Road Safety Audit and Road Work Safety in Kazakhstan, Germany |
1. Treatment of linear settlements along highways, Hans Joachim Vollpracht, World Bank Road Safety Audit and road Work Safety in Kazakhstan, Germany
2. Current problems and tendencies in roundabouts design, Marian Tracz, Cracow Technical University, Poland
3. Engineering solutions and their influence on effectiveness: Lithuanian experience, Egidijus Skrodenis, Lithuania |
|            | **8. session: Vulnerable road users**
Moderator Steve Proctor, University of Warwick, UK |
1. Motorcycle Safety, Jamilah Mohd Marjan, Malaysia
2. Safe to School – Safe to Home, Boris Poleganow, GRSP Poland
3. Vulnerable Road Users in UK, Steve Proctor, University of Warwick, UK
4. Leading road users towards (self) responsibility, Volker Fröse, ASTRA, Switzerland |
| 19:30      | Gala Dinner, Radisson Blu Sobieski Hotel, Marysienia Restaurant        |                                                                        |                                                                        |
| 4 October  |                                                                        |                                                                        |                                                                        |
| 9:00-10:30 | **9. session: Engineering solutions and their influence on effectiveness and safety of road traffic**
Moderator Francesco La Torre, University of Florence, Italy |
1. Influence of chosen factors on the safety of road traffic on the section of roads, Stanislaw Gaca, Mariusz Kieł, Cracow Technical University, Poland
2. Influence of geometric solutions and cross-section on safety, Francesca la Torre, University of Florence, Italy
3. Factors influencing traffic safety on intersections and national road junctions in Poland, Lucyna Gumińska, Gdańsk Technical University, Poland |
|            | **10. session: Road Safety Manual PIARC**
Blair Turner, Mike Griffith PIARC |
| 10:30-11:00| Coffee break                                                           |                                                                        |                                                                        |
| 11:00-12:30| Plenary closing session – panel discussion: Actions taken and building road safety capacity
Moderator Brendan Marsh |
Jean-François Corté, Secretary General, PIARC
Tewia Addo-Ashong, World Bank, USA |
| 12:30-14:00| Lunch                                                                  |                                                                        |                                                                        |