

**The University of Pardubice  
Jan Perner Transport Faculty**

**České dráhy**

**Vysočina Region**

**Q-rail**

cordially invite you to the international conference

## **Electromobility on the railway 2020 - 2030**

To take place in **Žďár nad Sázavou, Czech Republic**, on **10. - 11. October 2019**.

The conference will be organized under the auspice of:

**Libor Švadlenka**, *Dean of Jan Perner Transport Faculty, University of Pardubice*

**Radek Dvořák**, *Vice-Chairman of the Board, České Dráhy, a.s.*

**Jiří Běhounek**, *President of the Region, Vysočina Region*

Presentations will be held by:

Representative of MoT, Public transport, CZ  
Representative of MoT, Railway transport, CZ  
Representative of SŽDC, CZ  
Representative of ÖBB, AT  
Representative of Vysočina Region , CZ

Representative of Siemens, CZ  
Representative of ČD, CZ  
Representative of Alpha Trains, DE  
Representative of NAH.SH, DE

**Conference partners:**

ČD Informační systémy, Oltis Group, Siemens,  
BORCAD, ČD DPOV

Ladies and gentlemen,

I would like to invite you to our annual event, organised by České dráhy, University of Pardubice, Vysočina Region and Q-rail under the partnership of companies ČD Informační systémy, Oltis Group, Siemens and Borcad. Our annual conference takes place in Žďár nad Sázavou, in Vysočina Region in the Czech Republic. The conference venue takes place in the premises of Castle Žďár nad Sázavou.

The electromobility has become an important issue and an interesting challenge for the next decade of the 21st century. Leaving in particular aspects of the academic and more or less theoretical field, this issue has contaminated slowly the whole society and industry and spreaded to common activities of their life. The railway sector has not been standing apart. The attempts to reduce pollution, progress in development of alternative sources of electrical energy and its storage, feasible and meaningful investment into new rolling stock with a life cycle of ca 30 years – all these aspects have to be taken into account by all important stakeholders within the railway world as such – public transport authorities, railway undertakings, rolling stock producers and others. Despite the fact that the railway undertakings will be still somehow the most responsible body for rolling stock purchase, their freedom and risks will be significantly dependent on other players within the sector – requirements and needs of authorities within the passenger transport, equipment and development of the infrastructure, abilities and skills of industry and will and interest of politics to support the progress. Close teamwork of all players is a precondition of the success and feasible development and to reduce or share the potential risks.

What can we assume for the next decade within passenger transport by rail? It seems that the share of the brand new rolling stock based only on diesel fuel will slowly decrease and once fully disappear. Most probably the dominant motive power source will be ensured by electrical energy. Not electrified railway lines would probably need (temporary or even in mid-term perspective) to extend the pure electrical source of rolling stock by its close alternatives – hydrogen, high capacity batteries or something really brand new or smart. How much will be or could be the above-mentioned vision reached and fulfilled, how long does it take – it depends on further conditions – feasible transport model, accuracy and expectations of authorities, smart visions of industry, wide accessibility of the rolling stock and synergies with other modes of transport within the electromobility world.

There will be also interesting following development within the Czech Republic – necessity of ETCS equipment on the trunk lines from 2025 on, switch from DC to AC overhead system, further development of electrification of the lines, potential needs of cargo traffic, optimal alternative solutions, trust in new solutions and real time of first delivery.

All these and further close related topics shall be presented and discussed within the conference by the representatives of railway undertakings, public transport authorities, infrastructure manager, rolling stock producers, academic sphere and others. An important part of the conference is also experience from abroad.

Every presentation will be followed by a discussion about the particular topic to share various perspectives and share experiences both from the Czech Republic and abroad. As a last year, panel

discussion will be added to conference programme, allowing the participants more discussion opportunities to the topics.

Looking forward to meet you in Žďár nad Sázavou!!!

## PROGRAMME

### 10th October 2019, Thursday, Inventorium in the New generation museum, Žďár nad Sázavou Castle

9.00	Registration
9.45	Opening, Morning session, Discussion
13.30	Lunch break
14.30	Afternoon session, Discussion panel
19.00	Visit of Zelená Hora (UNESCO Heritage)
20.00	Reception

Languages: Czech (Slovak), English. Simultaneous interpretation will be provided.

### 11th October 2019 Friday, Accompanying programme

8.45 - 9.00	Departure from Žďár nad Sázavou
10.30 - 12.30	Shipcruise on the Dalešice dam
13.00 - 14.30/15.00	Visit of the nuclear power plant Dukovany/ hydroelectric powerplant Dalešice (you would have to choose one of the option offered)

### Registration:

- **Registration fee: 1500,- CZK**, (Students 500,- CZK)
- Registration: till 1st October 2019
- Registration fee payment: till 9th October 2019
- Onsite registration possible at the conference venue

Application is to be sent to: [hrabacek@gr.cd.cz](mailto:hrabacek@gr.cd.cz). For registration please provide following data:

- Name, Surname, Company, Company ID,
- Number of participants

### Conference venue:

Inventorium in the New generation museum  
Zámek Žďár nad Sázavou, Zámek 8/8  
591 02, Žďár nad Sázavou

### Accommodation:

You can ensure accommodation in following premises:

- Hotel u Labutě
  - e-mail: [recepce@hotelulabute.cz](mailto:recepce@hotelulabute.cz),
  - [www.hotelulabute.cz](http://www.hotelulabute.cz)
- Hotel Hajčman
  - e-mail: [info@hotelhajcman.cz](mailto:info@hotelhajcman.cz),
  - [www.hotelhajcman.cz](http://www.hotelhajcman.cz)

Pre-booking has been reserved till beginning of September, depending on real demand in the region.

Please book your rooms soon enough.

### **Further accommodation options in Žďár nad Sázavou and surroundings:**

- Penzion v Kapli – [www.kaple.cz](http://www.kaple.cz)
- Hotel Tálský mlýn – [www.talskymlyn.cz](http://www.talskymlyn.cz)
- Penzion Táferna - [www.taferna.cz](http://www.taferna.cz)