



ITU-T Workshop  
**ICTs: Building the  
green city  
of the future**

United Nations Pavilion  
**EXPO-2010, 14 May 2010**  
Shanghai, China



# PROGRAMME

14 May 2010

## 10:00 – 10:30 Opening Session: Welcome Remarks

**Chairman: Arthur Levin**, Chief, Services Department,  
International Telecommunication Union - Telecommunication  
Standardization Bureau (ITU/TSB)

**Welcome address: Dr Awni Behnam**, Commissioner General of  
the UN Pavilion

## 10:30 – 12:00 Session 1: ICTs and the reduction of GHG emissions:

Reducing the carbon footprint of the ICT sector (future networks,  
data centers, recycling) and using ICTs to reduce GHG emissions in  
other sectors (smart buildings, smart grids, dematerialization).

**Moderator: Paolo Gemma**, EU Senior Marketing Manager for  
Europe, Representative of Huawei Technologies, China and ITU-T  
Study Group 5 Rapporteur (Q17/5)

### Speakers:

- **Arthur Levin**, ITU/TSB: **ICTs as a tool to combat Climate Change: An overview**
- **Xia Zhang**, Senior Engineer, China Academy of  
Telecommunications Research, MIIT: **Reducing carbon  
from ICTs - Promote the universal power chargers for  
ICT devices**

### Presenters:

- **Raja Aida Binti Raja Shaharuddin**, Student's Project/  
Seminar Coordinator, College of Science & Technology, UTM  
International Campus, Malaysia: **Restructuring towards  
Green Computer Lab and Data Centre**
- **Bikash Nakarmi**, Korean Advanced Institute of Science  
& Technology, South Korea: **Efficient approach towards  
energy: Minimized optical network**
- **Daniel Mauricio Amaya Madrid**, Universidad Distrital  
Francisco José de Caldas, Bogota, Colombia: **Wireless  
Networks for trade community**

## 12:00 – 12:15 Coffee break

**12:15 – 13:30** **Session 2: The role of universities in building the Smart Cities of the Future:** Research and Development, pilot projects, e-learning, providing wired and wireless services to citizens, e-commerce, online entertainment, sensors.

**Moderator: Mercè Griera i Fisa**, European Commission, Information Society and Media Directorate-General, ICT for Sustainable Growth Unit

**Speaker:**

- **Mercè Griera i Fisa**, European Commission, Information Society and Media Directorate-General, ICT for Sustainable Growth Unit: **European funding opportunities for Research, Development and Deployment of Smart Cities projects**

**Presenters:**

- **Labonnah F. Rahman**, Dept. of Electrical, Electronic & Systems Engineering, Institute of Microengineering and Nanoelectronics, Universiti Kebangsaan, Malaysia: **Smart Tracking: Usage of IPv6 in RFID system for global mobility**
- **Daniele Trincherio**, iXEM Labs - DELEN, Politecnico di Torino, Italy: **Wireless sensors as an efficient way to improve sustainability in water management by a significant reduction of water wasting**
- **Basile Spyropoulos**, Medical Instrumentation Technology Dept., Faculty of Engineering, Technological Education Institute (TEI), Greece: **Smart Health Care in the city of the future: Patient treatment at home and medical data exchange in the emerging networked society**

**13:30 – 14:30** **Lunch break**

**14:30 – 16:00** **Session 3: Cars and Intelligent Transport Systems:** Using ICTs to green the transport industry; C2C communications, better traffic management, smart fuels, privacy.

**Moderator: Arthur Levin**, ITU/TSB

**Speaker:**

- **Paolo Rosa**, Head, Workshops & Promotion Division, International Telecommunication Union – Telecommunication Standardization Bureau (ITU/TSB): **ITU Fully-Networked Car initiative**

**Presenters:**

- **Phan Thanh Hoa** and **Takahiko Yamada**, Ritsumeikan University, Japan: **An integrated mobile network supporting urban activities**

- **Subin Shen**, Professor, Vice-Director, Institute of Information Network Technology, Nanjing University of Posts & Telecommunications, China: **Transport system**
- **Sed Saad**, Researcher, Waseda University (Japan) and Senior Strategy, Consultant, Telecoms & Intelligent Transport Systems (ITS): **Global perspectives of Intelligent Transport Systems (ITS)**
- **Oscar Armando Contreras** and **Yuly Jazmin Oviedo Melo**, Universidad Distrital Francisco José de Caldas, Bogota, Colombia: **Diagnosis of Pollution from vehicles: Meet the level of contamination of your vehicle and learn how to reduce**

**16:00 – 16:15 Coffee break**

**16:15 – 17:30 Session 4: Climate Change:** Key issues for the green cities of the future: using ICTs to improve social conditions, e-government and e-health, promoting safe environments and identifying new strategies to adapt to and mitigate climate change.

**Moderator: Arthur Levin**, ITU/TSB

**Speaker:**

- **Koichi Fujinuma**, Deputy Director, Ministry of Internal Affairs and Communications (MIC), Japan: **ICT & Climate Change Policies and Actions in Japan**

**Presenters:**

- **P.Chakalisa, D.Mapolelo**, and **D.M. Totev**, e-Government Research Group, University of Botswana, Gaborone: **The Green Developing World or How the developing world becomes developed**
- **Yang Yang**, Professor, Shanghai Research Center for Wireless Communications (WiCO), China: **Cooperative Wireless Networks for Better Green Services**
- **Heiler Yesid Ledezma Leudo** and **Heicer Enrique Ledezma Leudo**, Researchers – Foundation of the Pacific for the Advance of the Science and the Technology – FUPACTECNO, Bogota, Colombia: **Web territorial domains '.xx': Powerful tools of ICTs to offset GHG's emissions**

**17:30 – 18:00 Presentation of Awards and Conclusions**

**For electronic versions of the presentations and other information on this workshop:**  
<http://itu.int/ITU-T/worksem/ict-green/index.html>

Workshop contact: [tsbworkshops@itu.int](mailto:tsbworkshops@itu.int)

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