

**Transnational NSR E-mobility Expert Seminar and Public Event**  
**30 March 2012**

**A) Transnational Expert / Industry Meeting on EV Battery Technologies**

**Location: MEA House – Auditorium**, on Northumbria University’s City Centre Campus  
<http://www.meahouse.org.uk/about-us.htm>

Background: Electric batteries, their performance and life-span, but also their part in the V2G potentially storage potential in connection with smart grids are key issues in e-mobility

Aim: A) to bring together industry and academic experts on electric batteries issues on a transnational basis to explore progress, obstacles and potential solutions

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| <b>08:30</b>         | <b>Arrival for Electric Batteries Expert Seminar / coffee</b>   |
| <b>9:00 – 9:10</b>   | <b>Welcome and Context</b><br>Dr. Ghanim Putrus (Northumbria University) & Prof. Walter Leal, E-mobility NSR (HAW Hamburg)                  |
| <b>9:10 – 9:30</b>   | <b>An anatomy of technoscientific promise – the case of li-ion batteries</b><br>Dr. Sjoerd Bakker (OTB, Delft TU)                           |
| <b>9:30 – 9:50</b>   | <b>Lithium ion Batteries Powering E-mobility</b><br>Dr. Valentina Gentili (Axeon Technologies)  |
| <b>9:50 – 10:10</b>  | <b>Tests and innovation on Lithium Batteries</b><br>Prof. Karl-Ragmar Riemschneider (HAW Hamburg)   |
| <b>10:10 – 10:30</b> | <b>Coffee break</b>   |
| <b>10:30 – 10:50</b> | <b>Energy to Power an Electric Vehicle</b><br>Chris Baylis, Director (AVID Technology Group Ltd)  |
| <b>10:50 – 11:10</b> | <b>Experiences from long-term commercial use of electric batteries for commercial vehicles</b><br>Doug MacAndrew (Smith Electric Vehicles)  |
| <b>11:10 – 11:30</b> | <b>Nissan’s e-battery plant, technology and workforce development</b><br>Dr. Colin Herron (Zero Carbon Futures)                             |
| <b>11:30 – 11:50</b> | <b>EV batteries and smart charging</b><br>Tianxiang Jian, Dr. Ghanim Putrus (CEIS) and Matteo Conti (HVLC, Design) (Northumbria University) |
| <b>11:50 – 12:10</b> | <b>Practical Issues with implementing smart charging</b><br>Dr. Steve McDonald (Narec)  |
| <b>12:10 – 12:30</b> | <b>Energy management for ultra-capacitors to support EVs</b><br>Prof. Volker Pickert and Dr Simon Lambert, Newcastle University             |
| <b>12:30 – 12:45</b> | <b>Discussion and questions</b> chaired by Dr. Ghanim Putrus  |
| <b>12:30 – 13:20</b> | <b>lunch</b>  |



## B) Public User Experiences, Engagement and Public Policy Implications

**Location: Ellison Building A003/5, Northumbria University City Centre Campus (No. 8 on map below):**

[http://www.northumbria.ac.uk/brochure/visit/campus\\_branch/ncle\\_cmp/city\\_campus/](http://www.northumbria.ac.uk/brochure/visit/campus_branch/ncle_cmp/city_campus/)

Background: Policy makers in urban conurbations need to learn from each other, within and across European countries and beyond, how to pursue sustainable transport policies in order to achieve progress on emissions, public health, congestion and traffic management as well as finding viable business models for the hard and soft infrastructure around the range of electric vehicles.

Aim: to explore individual user experiences and how to engage with them, as well as policy makers

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| <b>13:30 – 13:40</b> | <b>E-Mobility NSR, the public and policy making</b><br>Prof. Walter Leal (HAW Hamburg) / Richard Kotter (Northumbria University) / Newcastle City Council  |
| <b>13:40 – 13:55</b> | <b>An unlikely dual transportation ecosystem: insights from a new town in Georgia, USA: Peachtree City</b><br>Prof. Ruth Dalton (Northumbria University)   |
| <b>13:55 - 14:10</b> | <b>Smart and Sustainable Electric Vehicle Ecosystems</b><br>Dr. David Beeton (Urban Foresight)   |
| <b>14:10 – 14:25</b> | <b>USPs, Marketing and Developing a Sustainable Business Model for Charge your Car, the regional Plugged-in-Places programme</b><br>Dr. Colin Herron (Charge your Car)                               |
| <b>14:25 – 14:40</b> | <b>Switch EV trials and EV user experiences</b><br>Graeme Hill (TORG, Newcastle University)  |
| <b>14:40 – 15:00</b> | <b>refreshments</b>  |
| <b>15:00 – 15:15</b> | <b>Sustainable Mobility Planning in Tyne &amp; Wear (infrastructure / fleet management)</b><br>Sally Herbert / Gary McDonald (Tyne and Wear local transport plan core team / Newcastle City Council) |
| <b>15:15 – 15:30</b> | <b>Electric Scooters - ignoring one key solution to sustainable urban / metropolitan transport?</b><br>Matteo Conti (HVLC, Northumbria)  |
| <b>15:30 – 15:45</b> | <b>Electric bike trial at Newcastle University</b><br>Andy Haddon (Haddon Associates)  |
| <b>15:45 – 16:15</b> | <b>Discussion</b><br>chaired by Cllr Dr. Geoff of Brien (Northumbria / NCC)  |
| <b>16:15 – 16:30</b> | informal discussions and departure of participants   |