**IALA Workshop**

ENG4-9.10

**Sustainable Light and Power for the next Generation**

**(IALABATT / IALAlITE)**

****Updated 2016-03-01**



**Date**

20 - 24 March, 2017

**Venue**

Koblenz Kongress

Koblenz, Germany

**Workshop Programme**

This programme is also posted on the IALA website ([www.iala-aism.org](http://www.iala-aism.org/))

**DAY 1 – Monday 20th March 2017**

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| **Time** | **Activity** |  |
| **1300 - 1400** | **Registration** |  |
| **1400 - 1430** | **Session 1 - Opening of the Workshop** | **Chair: Simon Millyard** |
| 1400 – 1410 | Welcome from host - WSV | Christian Forst, WSV |
| 1410 - 1420 | Welcome from IALA | Michael Card, IALA Deputy Secretary General |
| 1420 – 1425 | Administration & Safety Brief | Seamus Doyle – Jorg Unterderweide, WSV |
| 1425 - 1430 | Workshop aim & objectives | Simon Millyard, IALA Engineering & Sustainability Committee Chairman & Workshop Chairman |
| **1430 – 1600** | **Session 2 – Emerging technology** | **Chair:** Malcolm Nicholson |
| 1430 – 1450 | New developments in Light sources | Link Powell, GLA R&RNAV |
| 1450 – 1510  Possible expand to 30 mins | Developments in battery technology | Speaker |
| 1510 – 1530 | The challenge of charging new technology batteries | Jonas Lindberg |
| 1530 – 1550 | LED thermal management | Speaker |
| 1550 – 1600 | ?? maybe expand battery presentation |  |
| **1600 – 1630** | **Coffee Break** | |
| 1630 – 1800 | **Session 3 – Emerging technology** | **Chair: Adam Hay** |
| 1630 – 1650 | LED driver and control techniques | Speaker |
| 1650 – 1710 | Developments in solar PV | Bruce Cross, GB-Sol Ltd |
| 1710 – 1730 | Port Entry Lights – new developments | Speaker |
| 1730 – 1740 | Discussion | Adam Hay |

**Welcome Reception 1800 -1930 Koblenz Kongress Sponsor**

**DAY 2 – TUESDAY 21st March 2017**

| **Time** | **Activity** |  |
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| **0900 - 0945** | **Opening of Exhibition – Coffee available** | |
| **0945 - 1115** | **Session 4 – Sustainability** | **Chair: David Jeffkins** |
| 0945 - 1030 | Wave power generators | Mr Santo, JANA |
| 1030 - 1105 | Wind generation – Different types, experiences & developments | Michel Cousquer, CEREMA, France |
| 1105 - 1115 | Energy management – the low energy AtoN (Where the watt went). Power for communications transmissions | Peter Dobson, TH; Peter Schneider, WSV |
| **1115 - 1245** | **Session 5 – Sustainability** | **Chair: Chairperson** |
| 1115 – 1135 | Disposal issues – Life cycle costs including manufacture, use and disposal | Speaker |
| 1135 - 1155 | Assessment of old solar panels | Speaker |
| 1155 – 1210 | Climate change - changes in transmissivity and solar gain | Leif Arne Larsen, NCA |
| 1215 - 1225 | The changing legislative framework for compliant disposal | Speaker |
| 1225 - 1245 | Discussion | David Jeffkins |
| **1245 - 1400** | **Lunch & Workshop Group Photograph, Level 0 (Flexible time for photograph )** | |
| **1400 - 1530** | **Session 6 – Application of Technology** | **Chair: Chairperson** |
| 1400 - 1420 | Applications of sustainable light sources in AtoN | Alwyn Williams, GLA R&RNAV |
| 1420 - 1440 | IALA Solar Model - demonstration | Jorg Unterderweide, German Federal Waterways and Shipping Administration |
| 1440 - 1500 | Alternative power sources | Speaker |
| 1500 - 1520 | Battery conditioning and power optimisation | Link Powell, GLA R&RNav |
| 1520 - 1530 | Discussion | Chair |
| **1530 - 1600** | **Coffee Break** | |
| **1620 - 1730** | **Session 7 – Application of Technology** | **Chair: Chairperson** |
| 1600 - 1620 | Practical experiences of innovative applications  Suggestions for topics / presentation subject | Speaker |
| 1620 – 1640 | The Mariners viewpoint of AtoN technology in navigation | Speaker |
| 1640 - 1700 | Fuel cell application and practical experience | Peter Dobson, TH |
| 1700 - 1720 | Hybrid power systems. Security of supply & peak loads. | Speaker |
| 1720 - 1730 | Experiences in different battery types | Speaker |
|  | Establishment of working groups | Chairman |

**Evening social event – Champagne caves visit Sponsor**

**DAY 3 - WEDNESDAY 22nd March 2017**

| **Time** | **Activity** |  |
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| **0900 – 1230** | **Session 8 – Technical Visit** |  |
|  | Visit to WSV light laboratory with 4/6 practical demonstrations | Ideas for demonstrations and experiments |
| **1230 - 1400** | **Lunch** | |
| **1400-1530** | **Session 9 – Working Groups (WG)** | **Co-ordinator: David Jeffkins** |
|  | **WG1 – Power systems** (Develop the part complete guidance on Power systems currently in WG2) | Define output  Input papers? |
|  | **WG2 – Lights** (develop the part complete guidance document on Light Sources currently in WG1) | Define output  Input papers? |
| **1530 - 1600** | **Coffee Break** | |
| **1600 - 1730** | **Session 10 – Working Groups** |  |

**Free evening**

**DAY 4 - THURSDAY 23rd March 2017**

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| **Time** | **Activity** |  | |
| **0900 -1030** | **Session 11 – Working Groups** | **Co-ordinator: David Jeffkins** |
| **1030 – 1100** | **Coffee Break** | |
| **1100 – 1230** | **Session 12 – Working Groups** | **Co-ordinator: David Jeffkins** |
| **1300 – 1400** | **Lunch** | |
| **1400 - 1530** | **Session 13 – Working Groups** | **Co-ordinator: David Jeffkins** |
| **1530 - 1600** | **Coffee Break** | |
| **1600 - 1730** | **Session 14 – Working Groups** | **Co-ordinator: David Jeffkins** |
| **1730 - 1800** | **Meeting of WG leaders** | **WG leaders, Simon Millyard, David Jeffkins, Jorg Seamus Doyle** |

**Free evening**

**DAY 5 - FRIDAY 24th March 2017**

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| **0900 - 1030** | **Session 16 – Review of Output Documentation** | **Co-ordinator: Simon Millyard** |
| 0900 – 0930 | Presentation of draft documentation WG1 | Adam Hay |
| 0930 – 1000 | Presentation of draft documentation WG2 | Malcolm Nicholson |
| 1000 - 1030 | Panel discussion | Simon Millyard |
| **1030 - 1100** | **Break** | |
| **1100 - 1200** | **Session 17 – Plenary – Conclusions & Closing** | **Chair: Simon Millyard** |
| 1100 – 1130 | Conclusions from Workshop | David Jeffkins |
| 1130 – 1145 | Closing of the seminar | Michael Card, IALA |
| **1200 - 1300** | **Post workshop meeting** | **Steering Group** |

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