**IALA Workshop**

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

Required action from ENG3:

* Define output of Workshop – what IALA documents will be drafted/ amended?
* Define presentation sessions to support proposed workshop output
* Propose/ agree presentation speakers
* Propose / agree session chairs

**(IALABATT / IALAlITE)**



**Date**

20 - 24 March, 2017

**Venue**

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: Francis Zachariae, Secretary-General IALA** |
| 1400 – 1410 | Welcome from host - WSV | Christian Forst, WSV |
| 1410 - 1420 | Welcome from IALA | Francis Zacharie, IALA Secretary-General |
| 1420 – 1425 | Administration & Safety Brief | Seamus Doyle – Technical Committee Secretary or local person – Jorge? |
| 1425 - 1430 | Workshop aim & objectives | Simon Millyard, IALA Engineering & Sustainability Committee Chairman & Workshop Chairman |
| **1430 – 1600** | **Session 2 – Emerging technology** | **Chair:** |
| 1430 – 1450 | New developments in Light sources |  |
| 1450 – 1510 | Developments in battery technology |  |
| 1510 – 1530 | The challenge of charging new technology batteries |  |
| 1530 – 1550 | LED thermal management |  |
| 1550 – 1600 | Discussion |  |
| **1600 – 1630** | **Coffee Break** | |
| 1630 – 1800 | **Session 3 – Emerging technology** | **Chair:** |
| 1630 – 1650 | LED driver and control techniques |  |
| 1650 – 1710 | Developments in solar PV |  |
| 1710 – 1730 | ?? Manufacturer Sonnechein or FAMM for batteries |  |
| 1730 – 1800 | Discussion of what? |  |

**Welcome Reception 1800 -1930**

**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:** |
| 0945 - 1030 | Wave generators |  |
| 1030 - 1105 | Wind generation - |  |
| 1105 - 1115 | Climate change - changes in transmissivity and solar gain | Leif Arne Larsen, Norway |
| **1115 - 1245** | **Session 5 – Sustainability** | **Chair:** |
| 1115 – 1135 | Energy management – the low energy AtoN (Where the watt went) |  |
| 1135 - 1155 | Disposal issues – Life cycle costs |  |
| 1155 – 1210 | Assessment of old solar panels |  |
| 1215 - 1225 | The changing legislative framework for compliant disposal |  |
| 1225 - 1245 | Discussion |  |
| **1245 - 1400** | **Lunch & Workshop Group Photograph, Level 0 (Flexible time for photograph )** | |
| **1400 - 1530** | **Session 6 – Application of Technology** | **Chair:** |
| 1400 - 1420 | Applications of sustainable light sources in AtoN |  |
| 1420 - 1440 | IALA Solar Model - demonstration |  |
| 1440 - 1500 | Battery manufacture – the inside story. | A battery manufacturer to present |
| 1500 - 1520 |  |  |
| 1520 - 1530 | Discussion |  |
| **1530 - 1600** | **Coffee Break at the IALA IM Exhibition Area** | |
| **1620 - 1730** | **Session 7 – Application of Technology** | **Chair:** |
| 1600 - 1620 | Practical experiences of innovative applications |  |
| 1620 – 1640 | The Mariners viewpoint of AtoN technology in navigation | A Mariner to speak on the importance of AtoN |
| 1640 - 1700 | Fuel cell application and practical experience |  |
| 1700 - 1720 | Optimising generated energy |  |
| 1720 - 1730 | Experiences in different battery types |  |
|  | Establishment of working groups | Chairman |

**Evening social event – Champagne caves visit**

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

| **Time** | **Activity** |  |
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| **0900 – 1230** | **Session 8 – Technical Visit** |  |
|  | Description of technical visit and venue |  |
| **1230 - 1400** | **Lunch** | |
| **1400-1730** | **Session 9 – Working Groups (WG)** | **Co-ordinator:** |
|  | **WG1 – Power systems** (Develop the part complete guidance on Power systems currently in WG2)  Need for clearer definition of expected outputs.  Is there benefit of breaking the work into more working groups? | **Leader:** |
|  | **WG2 – Lights** (develop the part complete guidance document on Light Sources currently in WG1) | **Leader:** |
| **1530 - 1600** | **Coffee Break at the IM Exhibition Area** | |
| **1600 - 1730** |  |  |

**1930-2130: Workshop Dinner**

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

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| --- | --- | --- | --- |
| **Time** | **Activity** |  | |
| **0900 -1730** | **Session 12 – Working Groups** | **Co-ordinator:** |
| **1030 – 1100** | **Coffee Break at the IALA IM Exhibition Area** | |
| **1100 – 1230** | **Session 13 – Working Groups** | **Co-ordinator:** |
| **1300 – 1400** | **Lunch** | |
| **1400 - 1530** | **Session 14 – Working Groups** | **Co-ordinator:** |
| **1530 - 1600** | **Coffee Break at the IALA Exhibition Area** | |
| **1600 - 1730** | **Session 15 – Working Groups** | **Co-ordinator:** |
| **1730 - 1800** | **Meeting of WG leaders** | **WG leaders, Simon Millyard, Seamus Doyle** |

**Free evening**

**Other events**

**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 |  |
| 0930 – 1000 | Presentation of draft documentation WG2 |  |
| 1000 - 1030 | Panel discussion? Or discussion of way forward |  |
| **1030 - 1100** | **Break** | |
| **1100 - 1200** | **Session 17 – Plenary – Conclusions & Closing** | **Chair: Simon Millyard** |
| 1100 – 1130 | Conclusions from Workshop |  |
| 1130 – 1145 | Discussion & Workshop Debrief | Simon Millyard |
| 1145 – 1200 | Closing of the seminar | Michael Card, IALA |

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