



August 20-26, 2011  
Oxford, England



# XII Congress of the European Biological Rhythms Society

In association with  
the Japanese Society for Chronobiology

## Timetable (15 August 2011)

Saturday 20 August

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The Registration Desk will open at 12.00 and will be open daily throughout Congress from 09.00-17.00.


|             |                      |   |
|-------------|----------------------|---|
| 16.30-17.00 | South Writing School | <b>OPENING REMARKS</b><br><b>Speaker: Russell Foster</b>  |
| 17.00-18.00 | South Writing School | <b>LE1: The Gwinner Lecture</b><br>Chair: Brian Follett<br><b>Speaker: Andrew Loudon</b><br>Title: Biological Clocks and the Problem of Environmental Challenge |
| 19.00-21.00 | Ashmolean Museum     | <b>WINE RECEPTION with canapés</b>  |

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Sunday 21 August

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| 09.30-10.30 | South Writing School  | <b>LE2: The J Ariens-Kappers Lecture</b><br>Chair: Bambos Kyriacou<br><b>Speaker: Charlotte Helfrich-Förster</b><br>Title: What we have learnt from the circadian system of the fruit fly? |
| 10.30-11.00 | North Writing School  | <b>COFFEE BREAK</b> (Trade Exhibition and Posters)   |
| 11.00-13.00 | South Writing School<br><b>Symposium 1</b> <br><b>Photic Entrainment</b>       | East Writing School<br><b>Symposium 2</b><br><b>Circadian Output Pathways</b>  |
| 11.00-11.30 | <b>Chair: Stuart Peirson</b><br>Title: Characterising the role of melanopsin isoforms using siRNA   | <b>Chair: Valérie Simonneaux</b><br>Title: Nervous and endocrine clock outputs to control daily and seasonal reproduction  |
| 11.30-12.00 | Invited Speaker: Rob Lucas<br>Title: Melanopsin contributions to visual information in the mouse brain  | Invited Speaker: QY Zhou<br>Title: PK2 as a mediating signal for the suprachiasmatic clock output  |
| 12.00-12.30 | Invited Speaker: Howard M Cooper<br>Title: TBA  | Invited Speaker: Debra J Skene<br>Title: The endogenous melatonin rhythm: its use as a marker of human circadian timing  |
|             | <b>Short Communications</b>   | <b>Short Communications</b>  |
| 12.30-12.45 | Speaker: Raymond Najjar<br>Title: Aging of non-visual sensitivity to light compensatory mechanisms  | Speaker: Laura Ancel - SFC Award winner <br>Title: A Kiss for the seasonal control of reproduction     |
| 12.45-13.00 | Speaker: Giles Duffield<br>Title: Targeted disruption of the <i>Inhibitor of DNA binding 4 (Id4)</i> gene results in subtle effects on circadian clock function | Speaker: Kanwai Sakhi<br>Title: Actions of melatonin on mouse medial habenula neurones <i>in vitro</i>   |
| 13.00-13.15 | Speaker: Christian Hundahl<br>Title: Circadian behaviour in Neuroglobin deficient mice  | Speaker: Dawn H Loh<br>Title: Vasoactive intestinal peptide regulates the female reproductive system   |
| 13.15-14.15 | <b>LUNCH Ground Floor Atriums</b>   |  |
| 14.15-16.30 | South Writing School<br><b>Symposium 3</b><br><b>Chronotype Ecology</b>   | East Writing School<br><b>Symposium 4</b><br><b>Molecular Clocks - Vertebrates</b>   |
| 14.15-14.45 | <b>Chair: Roelof Hut</b><br>Title: Reduced food intake shifts activity rhythms in house mice  | <b>Chair: Pat Nolan</b><br>Title: Insights into molecular clock function using chemical mutagenesis in mice  |
| 14.45-15.15 | Invited Speaker: Noga Kronfeld-Schor<br>Title: Adaptive forces and temporal niche switches in golden spiny mice   | Invited Speaker: Urs Albrecht<br>Title: The clock mechanisms and regulation of physiology in vertebrates   |
| 15.15-15.45 | Invited Speaker: Horacio de la Iglesia<br>Title: Temporal Niche: When animals see the light   | Invited Speaker: Liz Maywood<br>Title: Generation of circadian phenotypic diversity using single cell gene mutations and gene interactions   |
|             | <b>Short Communications</b>   | <b>Short Communications</b>  |


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|--------------------|---|---|
| <b>15.45-16.00</b> | Speaker: Celine Vetter<br>Title: Linking sleep timing and obesity   | Speaker: Capucine Boivin<br>Title: Role of the circadian clock regulated ATF5 transcription factor  |
| <b>16.00-16.15</b> | Speaker: Adrian Ocampo-Garces<br>Title: Unmasking phase preference of the rest-activity rhythm and sleep-wake states in the fossorial coruro ( <i>Spalacopus cyanus</i> ) | Speaker: Manjana Saleh<br>Title: Toward the molecular mechanisms regulating circadian olfactory sensitivity in mammals  |
| <b>16.15-16.30</b> | Speaker: Elke Scheibler<br>Title: Interspecific contact affects time use in free-living Desert hamsters in Alashan desert, China  | Speaker: TBA<br>Title: TBA  |
| <b>16.30-17.00</b> | North Writing School  | <b>COFFEE BREAK</b>   |
| <b>17.00-18.00</b> | South Writing School  | <b>PLENARY LECTURE 1</b><br>Chair: Andrew Loudon<br><b>Speaker: Michael Menaker</b><br>Title: What do we know about the function of peripheral circadian oscillators? |
| <b>18.00-19.00</b> | North Writing School  | <b>POSTER SESSION (Wine)</b>   |
| <b>19.30-20.30</b> | Brasenose College TBC   | <b>MEETING OF THE EBRS COUNCIL</b>  |

Monday 22 August


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|-------------|--|--|--|
| 09.30-10.30 | South Writing School   | <b>PLENARY LECTURE 2</b><br>Chair: Pat Nolan<br><b>Speaker: Achim Kramer</b><br>Title: A systems view on the mammalian circadian clock   |  |
| 10.30-11.00 | North Writing School   | <b>COFFEE BREAK</b> (Trade Exhibition and Posters)   |  |
| 11.00-13.00 | South Writing School   | East Writing School  |  |
|             | <b>Symposium 5</b><br><b>Clocks and molecular switches</b>   | <b>Symposium 6</b><br><b>Light and temperature entrainment of the circadian clock in flies</b>   |  |
| 11.00-11.30 | <b>Chair: David Hazlerigg</b><br>Title: The evolutionary physiology of photoperiodism in vertebrates   | <b>Chair: Rudi Costa</b><br>Title: The <i>Drosophila</i> circadian clock in the wild   |  |
| 11.30-12.00 | Invited Speaker: Mike Sellix<br>Title: A "switch" in sensitivity: How might the circadian clock in the ovary contribute to the timing of ovulation | Invited Speaker: Francois Rouyer<br>Title: TBA   |  |
| 12.00-12.30 | Invited Speaker: Takeshi Izawa<br>Title: Molecular switch of critical day-length recognition in plants   | Invited Speaker: Ralf Stanewsky<br>Title: Unusual Rhodopsin signalling contributes to light entrainment in <i>Drosophila</i>   |  |
|             | <b>Short Communications</b>  | <b>Short Communications</b>  |  |
| 12.30-12.45 | Speaker: Simonetta Andreatza<br>Title: Analysis of TICK and TOCK, two new genes controlling rest-activity rhythms in <i>Drosophila</i>             | Speaker: Mirko Pegoraro<br>Title: Seasonal timing: is the circadian clock required?  |  |
| 12.45-13.00 | Speaker: Tomoko Ikeno<br>Title: Insect photoperiodism under control of circadian clock genes   | Speaker: Eri Morioka<br>Title: Synaptic influence on peripheral circadian oscillators in pupal <i>Drosophila</i> prothoracic glands  |  |
| 13.00-13.15 | Speaker: Caroline Ancel<br>Title: RFRP-3 in the Syrian Hamster: the exception proves the rule  | Speaker: Yosuke Miyazaki<br>Title: Adult eclosion timing of the flesh fly, <i>Sarcophaga crassipalpis</i> : the effect of the shape of temperature cycles on the circadian clock |  |
| 13.15-14.15 | <b>LUNCH Ground Floor Atriums</b>  |  |  |
| 14.15-16.30 | South Writing School   | East Writing School  |  |
|             | <b>Symposium 7</b><br><b>Circadian and seasonal rhythms in plants</b>  | <b>Symposium 8</b><br><b>Circadian clocks, clock genes and diseases</b>  |  |
| 14.15-14.45 | <b>Chair: Andrew Millar</b><br>Title: TBA  | <b>Chair: Henrik Oster</b><br>Title: Glucocorticoids, tissue clocks and jet lag  |  |
| 14.45-15.15 | Invited Speaker: Paloma Mas<br>Title: A mechanism for temperature compensation of the Arabidopsis circadian clock                                  | Invited Speaker: Francis Levi<br>Title: systems chronopharmacology approaches for the personalisation of cancer chronotherapeutics   |  |
| 15.15-15.45 | Invited Speaker: Pieter Rein ten Wolde<br>Title: The robust ticking of a circadian clock: why two oscillators can be much more stable than one     | Invited Speaker: Marsha Morgan<br>Title: TBA   |  |

|                    | <b>Short Communications</b>  |   | <b>Short Communications</b>  |
|--------------------|--|---|--|
| <b>15.45-16.00</b> | Speaker: Alexandra Pokhilko<br>Title: Model-based analysis of molecular mechanisms of <i>Arabidopsis circadian</i> clock |   | Speaker: Sarah Otto<br>Title: Clocks determine outcome of parasitic worms infection in mice                          |
| <b>16.00-16.15</b> | Speaker: Rachel Green<br>Title: Cell autonomous and cell-type specific circadian rhythms in <i>Arabidopsis</i>           |   | Speaker: Ali Mteyrek<br>Title: Relevance of <i>per2</i> mutation for diethylnitrosamine-induced liver carcinogenesis |
| <b>16.15-16.30</b> | Speaker: Hirokazu Fukada<br>Title: Striped moving pattern of circadian rhythm in plant roots                             |   | Speaker: Eva Winnebeck<br>Title: General anaesthesia phase shifts the circadian clock                                |
| <b>16.30-17.00</b> | North Writing School   |   | <b>COFFEE BREAK</b> (Trade Exhibition and Posters)   |
| <b>17.00-18.00</b> | South Writing School   | <b>The Axelrod Lecture</b><br>Chair: Bill Schwartz<br><b>Speaker: Marty Zatz</b><br>Title: A Brief Overview of Julie's Shmoo: Input, Throughput, and Output in the Pineal Gland |  |
| <b>18.00-19.00</b> | North Writing School   | <b>POSTER SESSION (Wine)</b>  |                                   |

**Special Symposium (9) Cells to Circuits: Circuits to Behaviour**

|             |                             |  |
|-------------|-----------------------------|--|
| 09.30-10.30 | South Writing School        | <p><b>PLENARY LECTURE 3</b><br/>                     Chair: Sarah Caddick<br/> <b>Speaker: Gero Meisenboeck</b><br/>                     Title: Lighting up the Brain</p>  |
| 10.30-11.00 | North Writing School        | <b>COFFEE BREAK</b> (Trade Exhibition and Posters)   |
| 11.00-13.00 | South Writing School        | <p><b>Vertebrate Systems</b><br/> <b>Chair: Gero Miesenboeck</b></p>   |
| 11.00-11.40 |                             | <p>Invited Speaker: Mick Hastings<br/>                     Title: Analysing and manipulating transcriptional and cellular circuits in the suprachiasmatic nucleus</p>  |
| 11.40-12.20 |                             | <p>Invited Speaker: Matt Jones<br/>                     Title: Roles of oscillatory activity on coordinating interactions between functionally connected brain regions (sleep and replay)</p>  |
| 12.20-13.00 |                             | <p>Invited Speaker: Matteo Carandini<br/>                     Title: Dynamics of population activity in visual cortex</p>  |
| 13.00-14.30 | <b>Ground Floor Atriums</b> | <b>LUNCH</b>   |
| 14.30-16.30 | South Writing School        | <p><b>Invertebrate Systems</b><br/> <b>Chair: Charlotte Helfrich-Förster</b></p>   |
| 14.30-15.10 |                             | <p>Invited Speaker: Barry Dickson<br/>                     Title: Fly genes, neuronal wiring, circuits and behaviour</p>   |
| 15.10-15.50 |                             | <p>Invited Speaker: Mario de Bono<br/>                     Title: Worms, genes, circuits and behaviour</p>   |
| 15.50-16.30 |                             | <p>Invited Speaker: Tom Matheson<br/>                     Title: Neuronal plasticity and rhythms in the visual system of desert locusts</p>  |
| 16.30-17.00 | North Writing School        | <b>COFFEE BREAK</b> (Trade Exhibition and Posters)   |
| 17.00-18.00 | South Writing School        | <p><b>PLENARY LECTURE 4</b><br/>                     Chair: Mick Hastings<br/>                     Speaker: John O’Keefe<br/>                     Title: The role of theta-band oscillations in hippocampal spatial computations</p> |
| 18.00-19.00 | South Writing School        | <p><b>POSTER SESSION (Wine)</b></p>   |

Wednesday 24 August

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| 09.30-10.30   | South Writing School   | <b>PLENARY LECTURE 5</b><br>Chair: Till Roenneberg<br><b>Speaker: Joke Meijer</b><br>Title: Does the SCN control behavioral activity levels? |  |
| 10.30-11.00   | North Writing School   | <b>COFFEE BREAK</b> (Trade Exhibition and Posters)   |  |
| 11.00-13.00   | <br>South Writing School<br><b>Symposium 10</b><br><b>ESRS-EBRS Symposium - Sleep-Clock Mechanisms</b><br><b>Chair: Debra Skene</b> | 11.00-13.15  | East Writing School<br><b>Symposium 11</b><br><b>SCN</b>   |
| 11.00-11.30   | Invited Speaker: Tom de Boer<br>Title: Circadian modulation of sleep in rodents  | 11.00-11.30  | <b>Chair: Hugh Piggins</b><br>Title: Cellular properties of circadian clock neurones   |
| 11.30-12.00   | Invited Speaker: Derk-Jan Dijk<br>Title: Sleep and circadian rhythms in humans: a two-way interaction  | 11.30-12.00  | Invited Speaker: Karl Obrieton<br>Title: The ERK/MAPK pathway: a multifaceted regulator suprachiasmatic clock timing and entrainment   |
| 12.00-12.30   | Invited Speaker: Tarja Porkka-Heiskanen<br>Title: Mechanisms of sleep homeostasis  | 12.00-12.30  | Invited Speaker: Alun Hughes<br>Title: Feedback actions of exercise on the SNC and circadian system  |
| 12.30-13.00   | Invited Speaker: Lino Nobili<br>Title: Local aspects of sleep: observations from intracerebral recordings in humans  | <b>Short Communications</b>  |  |
|   |  | 12.30-12.45  | Speaker: Emma Cussans<br>Title: Cancer infiltration in the human suprachiasmatic nucleus associated with circadian disruption  |
|   |  | 12.45-13.00  | Speaker: Marco Brancaccio<br>Title: Using lentiviral vectors to track the circadian activity of <u>C</u> yclic AMP/ <u>Ca</u> lcium <u>R</u> esponsive <u>E</u> lements in the Suprachiasmatic Nucleus |
|   |  | 13.00-13.15  | Speaker: Hester van Diepen<br>Title: Essential role for vasoactive intestinal polypeptide in seasonal encoding by the suprachiasmatic nucleus  |
| <b>NO LUNCH PROVIDED ON THIS DAY</b>  |  |  |  |
| South Writing School<br><b>General Assembly of the EBRS</b><br><b>13.15 – 14.00</b> |  |  |  |

Afternoon off to explore Oxford or:

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| East Writing School<br><b>Satellite Symposium</b> |
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| <b>Modulation of retinal functions by circadian clocks</b> |  |
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| <b>14.00-15.45</b>   | <b>Session 1</b><br><b>Moderator: Gianluca Tosini</b>  |
| 14:00-14:30  | Speaker: Douglas McMahon<br>Title: "Keeping the eye on time: Circadian organization of the retina"                       |
| 14:30-14:45  | Speaker: Marie-Paule Felder-Schmittbuhl<br>Title: "Layer-specific dissection of retinal circadian oscillators."          |
| 14:45-15:15  | Speaker: Rob Lucas<br>Title: "Rhythmicity in the mouse electroretinogram."   |
| 15:15-15.45  | Speaker: Michael Iuvone:<br>Title: "Dopamine and synchronization of circadian rhythms in mouse retina."                  |
| 15.45-16.00  | Break  |
| <b>16.00-17.45</b>   | <b>Session 2</b><br><b>Moderator: Michael Iuvone</b>   |
| 16:00-16:30  | Speaker: Rainer Spessert<br>Title: "The search for genes under daily regulation in retina and photoreceptor of mammals"  |
| 16:30-16:45  | Speaker: Sumathi Sekaran<br>Title: "Rhythmic regulation of retinal connexins"  |
| 16:45-17:15  | Speaker: Stuart Mangel<br>Title: "The circadian clock in the retina controls rod pathway activity in the day and night." |
| 17:15-17.45  | Speaker: Gianluca Tosini<br>Title: "Removal of melatonin signaling affects retinal physiology "                          |

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| <b>19.00-19.30</b> | Entrance Hall,<br>Examination School | <b>PRE DINNER DRINKS</b>  |
| <b>19.30-22.30</b> | North Writing School                 | <b>CONFERENCE BANQUET</b><br><br><b>BANQUET AFTER-DINNER SPEAKER</b><br>Introduction: Russell Foster<br><b>Speaker: Brian Follett</b><br>Title: TBA |



Thursday 25 August

|             |  |   |
|-------------|--|---|
| 09.30-10.30 | South Writing School   | <b>LE4: JCS</b><br><b>Chair: Takashi Yoshimura</b><br><b>Speaker: Sato Honma</b><br>Title: Suprachiasmatic nucleus: cellular clocks and networks      |
| 10.30-11.00 | North Writing School   | <b>COFFEE BREAK</b>   |
| 11.00-13.15 | South Writing School<br><b>Symposium 12</b><br><b>Clocks/Sleep and Metabolism</b>  | East Writing School<br><b>Symposium 13</b><br><b>Rhythms, Sleep and Memory</b>  |
|             | <b>Chair: Andries Kalsbeek</b><br>Title: TBA   | <b>Chair: Eus van Someren</b><br>Title: Sleep, circadian rhythms and memory across the human life span  |
| 11.30-12.00 | Invited Speaker: Frank Scheer<br>Title: Cardiometabolic health impact of the human circadian system  | Invited Speaker: H. Craig Heller<br>Title: The roles of sleep and circadian rhythm in learning and memory   |
| 12.00-12.30 | Invited Speaker: Bart Staels<br>Title: Nuclear receptors integrate circadian rhythms and metabolism  | Invited Speaker: Jason Gerstner<br>Title: Fatty-acid binding proteins regulate sleep and long-term memory   |
|             | <b>Short Communications</b>  | <b>Short Communications</b>   |
| 12.30-12.45 | Speaker: Anton Shostak<br>Title: the role of adipose tissue clocks in metabolic maintenance  | Speaker: Pat Nolan<br>Title: Circadian and behavioural deficits in mice associated with Katnal 1 dysfunction  |
| 12.45-13.00 | Speaker: Hanne Gonnissen<br>Title: Quality sleep and energy balance  | Speaker: Valter Tucci<br>Title: After-hours mice do not reduce their temporal uncertainty during timing learning                                      |
| 13.00-13.15 | Speaker: Tamara Varcoe<br>Title: Chronic phase shifts of the photoperiod throughout pregnancy programs glucose intolerance and insulin resistance in the rat | Speaker: Virginie Gabal<br>Title: Beneficial effects of morning light on cognitive performance, mood, melatonin and cortisol during sleep restriction |
| 13.15-14.15 | <b>LUNCH Ground Floor Atriums</b>  |   |
| 14.15-16.30 | South Writing School<br><b>Symposium 14</b><br><b>Sleep/Clocks Mental Health and Neurodegenerative Disease</b>   | East Writing School<br><b>Symposium 15</b><br><b>Enigmatic Clocks: Circannual and Circatidal Rhythms</b>  |
| 14.15-14.45 | <b>Chair: Phil Cowen</b><br>Title: Antidepressants and sleep   | <b>Chair: Barbara Helm</b><br>Title: Temporal multitasking: performance of migratory birds on different timescales                                    |
| 14.45-15.15 | Invited Speaker: Katharina Wulff<br>Title: Circadian rhythms in schizophrenia/bipolar disorder   | Invited Speaker: Hideharu Numata<br>Title: The clock driving the circannual rhythm in the varied carpet beetle  |
| 15.15-15.45 | Invited Speaker: Joe Herbert<br>Title: Corticoid rhythms, hippocampal neurogenesis and depression  | Invited Speaker: Kim Last<br>Title: Biological clock lability in the marine domain: from temperate shores to the Arctic Ocean                         |
|             | <b>Short Communications</b>  | <b>Short Communications</b>   |

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|--|---|---|
| <b>15.45-16.00</b>   | Speaker: Kate Porcheret<br>Title: The effect of sleep deprivation on emotional processing following exposure to a depressing film | Speaker: Stefanie Moenecke<br>Title: Ontogeny of the seasonally varying activity pattern in European Hamsters   |
| <b>16.00-16.15</b>   | Speaker: Elisabet Ortiz-Tudela<br>Title: Biological rhythms characterization in mild cognitive impairment                         | Speaker: Hiroki Takekata<br>Title: The circatidal rhythm of the mangrove cricket persists after RNAi of the circadian clock gene <i>period</i>  |
| <b>16.15-16.30</b>   | Speaker: Vivien Bromundt<br>Title: Circadian sleep-wake cycles, well-being and light therapy in borderline personality disorder   | Speaker: James Cheeseman<br>Title: Semilunar clock mechanism controlling foraging behaviour: A view from the Pacific  |
| <b>16.30-17.00</b>   | North Writing School  | <b>COFFEE BREAK</b>   |
| <b>17.00-18.00</b>   | South Writing School  | <b>PLENARY LECTURE 6</b><br>Chair: Russell Foster<br><b>Speaker: Ueli Schibler</b><br>Title: Signalling within the mammalian timing system: The phase entrainment of peripheral clocks  |
| <b>18.00-19.30</b>   | Room 9  | <b>Art presentation 'SUN DIAL : NIGHT WATCH'</b><br><br>Wine reception - <b>With the artist SUSAN MORRIS</b><br>Russell Foster: Chair<br>Katharina Wulff, Biologist: Experimental art project investigating biomedical science<br>Susan Morris, Artist: Tracing a bodily unconscious<br>Anna Wirz-Justice, Zoologist: Science-Art dialogue – new ways of thinking<br>Simon Williams, Sociologist: Governing the body: the politics of sleep<br>Russell Foster: Q&A and discussions between speakers and guests<br>Close |
| <b>18.00</b>   |   |   |
| <b>18.20</b>   |   |   |
| <b>18.30</b>   |   |   |
| <b>18.50</b>   |   |   |
| <b>19.00</b>   |   |   |
| <b>19.10</b>   |   |   |
| <b>19.30</b>   |   |   |
|    |   |   |

Friday 26 August

|             |  |   |  |
|-------------|--|---|--|
| 09.30-10.30 | South Writing School   | <b>PLENARY LECTURE 7</b><br>Chair: Martha Mellow<br><b>Speaker: William Schwartz</b><br>Title: Sociochronobiology                                 |  |
| 10.30-11.00 | North Writing School   | <b>COFFEE BREAK</b>   |  |
| 11.00-13.15 | South Writing School<br><b>Symposium 16</b><br><b>Development and Aging of Circadian Systems</b>   | East Writing School<br><b>Symposium 17</b><br><b>Living Against the Clock</b>   |  |
| 11.00-11.30 | <b>Chair: Alena Sumova</b><br>Title: How circadian clocks change during life   | <b>Chair: Till Roenneberg</b><br>Title: What can we learn from alarm clocks   |  |
| 11.30-12.00 | Invited Speaker: Fred Turek<br>Title: Aging and Circadian Clocks: A Two-Way Street   | Invited Speaker: Torbjorn Akerstedt<br>Title: Night driving, sleepiness and risk  |  |
| 12.00-12.30 | Invited Speaker: Hidenobu Ohta<br>Title: Lighting conditions and developing biological clocks  | Invited Speaker: David Dinges<br>Title: Managing neurobehavioural capability when social expediency trumps biological imperatives                 |  |
|             | <b>Short Communications</b>  | <b>Short Communications</b>   |  |
| 12.30-12.45 | Speaker: Carolin Reichert<br>Title: Motor skills learning under sustained wakefulness: influence of age, sleep pressure and time of day  | Speaker: Thomas Kantermann<br>Title: Cardiovascular risk and individual shift work load in clockwise and counter-clockwise rotating shift workers |  |
| 12.45-13.00 | Speaker: Benita Middleton<br>Title: The effect of increasing artificial light levels on rest-activity rhythms of older people living in care homes                                 | Speaker: Kathrin Pusch<br>Title: Performance and risks under rotating shift work  |  |
| 13.00-13.15 | Speaker: Lorena Abarzua-Catalan<br>Title: The fetal rat heart is a potential target for maternal melatonin actions   | Speaker: Marijke Gordjinn<br>Title: Phase advancing the human circadian system with short pulses(30 min)of blue light exposure                    |  |
| 13.15-14.15 | <b>LUNCH Ground Floor Atriums</b>  |   |  |
| 14.15-16.30 | South Writing School<br><b>Symposium 18</b><br><b>Photic Entrainment in Non-Mammals</b>  | East Writing School<br><b>Symposium 19</b><br><b>Clocks in Unicells</b>   |  |
|             | <b>Chair: David Whitmore</b>   | Chair: Martha Mellow  |  |
| 14.15-14.45 | Invited Speaker: Mark Hankins<br>Title: Functional diversity of melanopsins and their global expression in the Zebrafish retina  | Title: Temperature compensation versus compensation of entrained phase: poikilotherms do it differently than homeotherms                          |  |
| 14.45-15.15 | Invited Speaker: Nicholas Foulkes<br>Title: Circadian clocks – lessons from fish   | Invited Speaker: Takao Kondo<br>Title: Circadian timing of cyanobacteria by intramolecular regulation of KaiC APTase                              |  |
| 15.15-15.45 | Invited Speaker: Yoshitaka Fukada<br>Title: posttranslational light activation of sterol regulatory element-binding protein is important for phase-delay of the chick pineal clock | Invited Speaker: Florence Corellou<br>Title: Unravelling clock-work in the simple eukaryotic unicellular system: <i>Ostreococcus</i>              |  |

|                    | Short Communications  | Short Communications   |
|--------------------|---|--|
| <b>15.45-16.00</b> | Speaker: Jose Manuel Garcia-Fernandez<br>Title: Avian encephalic photoreceptors: The VA/opsin/vasotocin/GnRH Hypothesis   | Speaker: Harriet McWatters<br>Title: The role of host circadian rhythms in the growth and transmission of malarial parasites |
| <b>16.00-16.15</b> | Speaker: Jose Lopez Olmeda<br>Title: Daily rhythms in the hypothalamus-pituitary endocrine factors involved in stress and growth in a teleost fish, <i>Solea senegalensis</i> | Speaker: Domien Beersma<br>Title: Energy transfer from day into night explains early evolution of biological clocks          |
| <b>16.15-16.30</b> | Speaker: Elsbeth Mc Stay<br>Title: There's something fishy about the salmon clock!  | Speaker: Hande Asimgli<br>Title: Purification and characterisation of photolase-like proteins from red algae                 |
| <b>16.30-17.00</b> | <b>Awards and Summing – Up</b><br>Speaker: Russell Foster   |  |
|                    | <b>END OF CONGRESS</b>  |  |

DRAFT

**Events and facilities throughout the Congress 20 – 26 August 2011:**

| <b>Event/Facility</b>                  | <b>Location</b>  | <b>Availability</b>  |
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| Registration Desk                      | North Atrium, Ground Floor, Examination Schools<br>RH Desk, Entrance Hall, Examination Schools | From noon – 17.00, 20 August<br>09.00 – 18.00 21 August<br>09.00-18.00 daily |
| Posters                                | North Writing School, Examination Schools  | 09.00-19.30, 21-23 August  |
| Poster Sessions                        | North Writing School, Examination Schools  | 18.00-19.00, 21-23 August<br>Poster takedown 08.30-09.30 24 August           |
| Trade Exhibition                       | North Writing School, Examination Schools  | 09.00-17.00, 21-23 August<br>Take down before 09.30, 24 August               |
| 'Sun Dial: Night Watch' Art Exhibition | Room 9, Examination Schools  | 09.00-17.00 21-25 August<br>09.00-13.30, 26 August                           |
| Art Exhibition Debate                  | Room 9, Examination School   | 18.00-19.30, 25 August   |
| Internet Cafe                          | Room 13, Examinations School   | 09.00-17.00  |
| Press Room                             | Room 11, Examination School  | 09.00-17.00  |
| Congress Office                        | Room 6, Examination Schools  | From noon – 17.00, 20 August<br>Thereafter 09.00-17.00 daily                 |
| Luggage/Coat Room                      | Room 7, Examination School   | From noon – 17.00, 20 August<br>Thereafter 09.00-17.00 daily                 |
| Meeting Room                           | Room 15, Examination School  | Please apply to the Congress Office for bookings                             |
| Speakers' AV Room                      | Room 8 Examination School  | 12.00-17.00 20 August<br>09.00-17.00 21-25 August<br>09.00-14.00 26 August   |