

# Programme

## WEDNESDAY, APRIL 27

16.00 – 22.00 Registration desk at hotel London

## THURSDAY, APRIL 28

8.45 – 11.00 PLENARY TALKS (ATHENA)

Welcome

**David Atkinson** (45) A fresh look at relationships between temperature, body size and biological rates

**Jeff Arendt** (45) Reproductive allometry and the temperature-size rule; being bigger in the cold is adaptive for some, but not all

11.00 – 11.20 Coffee break

11.20 – 13.00 **Karl Gotthard** (45) The evolution of body size and alternative developmental pathways in temperate butterflies

**Toomas Tammaru** (30) Determination of body size in Lepidoptera: looking for constraints

13.00 – 14.30 Lunch

14.30 – 16.30 SESSION "INSECT PLASTICITY" (LONDON)

**Richard Walters** Condition dependency of the temperature-size rule

**David Berger** Does temperature-specific genetic variance for body size and development rate predict population divergence in *Sepsis punctum*?

**Sami Kivelä** Genetic and phenotypic variation in juvenile development in relation to temperature and developmental pathway in a geometrid moth

**Thomas Tully** The shape and genetic variation of thermal reaction norms for growth and maturation in the collembola *Folsomia candida*

**Vincent Foray** Impact of fluctuating thermal conditions on reaction norms in a parasitoid wasp

**Tiit Teder** Sex differences in developmental plasticity

16.30 – 17.00 Coffee break

17.00 – 19.00 SESSION „GEOGRAPHY“ (LONDON)

**Miguel Olalla Tárrega** The biogeography of body size in terrestrial vertebrates: linking ecological and evolutionary approaches

**Terezia Horvathova** Geographic and climatic patterns of life history variation in the world's most widespread reptile

**Dmitry Musolin** Some like it hot or Too hot to handle? Range expansion and life-history responses to climate warming of the southern green stink bug *Nezara viridula* (Insecta: Heteroptera: Pentatomidae)

**Maria Tuomaala** Latitudinal variation in wing melanisation in the green veined white butterfly (*Pieris napi*): role for adaptation to cold?

**April Hayward** Latitudinal variation in the temperature-dependence of ecosystem respiration rate

**Anu Valtonen** Are northern populations more sensitive to temperatures than southern populations?

19.00 Unguided foraging in the town

## FRIDAY, APRIL 29

- 9.00 – 10.20    SESSION “PLASTICITY II” (LONDON)
- Lukáš Kratochvíl**            Development, proximate control and phenotypic plasticity of sexual size dimorphism in the tropical lizard *Paroedura picta* (Squamata: Gekkonidae)
- Joost Van den Heuvel**      The predictive adaptive response: modeling the life history of *Bicyclus anynana*
- Sergey Balashov**            Growth rate as a determinant factor for development time in insects
- Laura Härkönen**            Seasonal variation in offspring size and cold tolerance of a viviparous ectoparasite – A battle between the host and the parasite
- 10.20 – 10.40    Coffee break
- 10.40 – 12.00    **Franja Pajk**                    Intergenerational temperature change and its effect on growth and fitness of a key freshwater herbivore *Daphnia* – interaction with food quality
- Santiago Salinas**            Thermal transgenerational plasticity in sheepshead minnows
- Paula Lehtonen**            Identifying transcriptional networks involved in thermal stress in the threespine stickleback
- Erica Leder**                    Inheritance of expression in response to thermal stress in threespine stickleback
- 12.00 - 13.15    **POSTER SESSION**
- 13.15 – 14.30    Lunch
- 14.30 – 18.30    Excursion, informal open-air discussions
- 19.00              Unguided foraging in the town

## SATURDAY, APRIL 30

- 9.00 – 11.00    PLENARY TALKS (ATHENA)
- Alexander Shingleton (45)**      The thermal regulation of body and organ size: a developmental perspective
- Neil Metcalfe (45)**            Long-term fitness consequences of temperature-induced changes in growth trajectory in fish
- 11.00 – 11.20    Coffee break
- 11.20 – 13.00    **Shai Meiri (45)**              What kind of thermal regime does lizard evolve to meet?
- Robby Stoks (30)**            A role for physiological constraints in the latitudinal differentiation of thermal growth reaction norms?
- 13.00 – 14.30    Lunch

14.30 – 16.30	SESSION “PHYSIOLOGY” (LONDON)	
	<b>Dmitry Kutcherov</b>	Photoperiodic control of thermal plasticity for development rate in insects
	<b>Vicencio Oostra</b>	Developmental and hormonal mechanisms underlying temperature-induced seasonal plasticity in life history strategies
	<b>Jenni Prokkola</b>	Gene-by-environment interactions and phenotypic effects of temperature on immune defense and life-history traits in <i>Tenebrio molitor</i>
	<b>Santa Znotina</b>	Consistent individual differences and their thermal regulation in anti-predator behaviour in mealworm beetles <i>Tenebrio molitor</i>
	<b>Inese Kivleniece</b>	Temperature mediated trade-off between encapsulation response and attractiveness in male mealworm beetles <i>Tenebrio molitor</i>
	<b>Andreas Nord</b>	Patterns, processes and functional explanations in avian thermoregulation during winter

16.30 – 18.00 Coffee and looking around

18.00 – 19.20 SESSION „VERTEBRATE“

<b>Zuzana Starostová</b>	Temperature-induced phenotypic plasticity in growth and body size in the gecko <i>Paroedura picta</i>
<b>Konstantinos Sagonas</b>	Does body size affect thermal biology? The case of an endemic lizard in Skyros Archipelago (East Mediterranean, Greece).
<b>Marco Katzenberger</b>	So, which is the optimum temperature for an amphibian? Comparing optimum temperatures across life-traits and life-stages
<b>Fredrik Sundström</b>	Different reaction norms in development and growth at different temperatures in two genetic variants of coho salmon

20.00 Dinner at London

night student observe, join or ignore (if possible)  
celebrations [http://en.wikipedia.org/wiki/Walpurgis\\_Night](http://en.wikipedia.org/wiki/Walpurgis_Night)  
(Walpurgis night)

22.30 Walpurg's Night Fire Show (close to the river)

## SUNDAY, MAY 01

Dispersal