Sunday 31/08

8:30	**Welcome and general information**	
9:00	***James T. Costa* - Beyond selfish herds: Structure, ecology and evolution of larval societies** Chair: J.L. Deneubourg	
10:00	**COFFEE BREAK**	
10:30	**Social Organization, Collective Processes & Division of Work (1)** Chair: J.L. Deneubourg	**Reproductive Strategies & Population Genetics (1)** Chair: M. Woyciechowsky
	Janzen T. - The evolution of reinforced thresholds and division of labour *Johnson B.* - Honey bees use frequent task quitting and random walks to solve problems of spatial variability in task demand *Giovanetti M*. - Division of labour in a sphecid wasp, *Cerceris rubida*: The importance of body size *Jeanson R*. - Division of labour in associations of solitary halictine bees *Leniaud L.* - Ontogenic potentialities, caste differentiation and consequences on the genetic structure of an invasive *Reticulitermes* termite *Duarte A*. - Evolution and self-organization of division of labour: An integrated perspective	*Bourke A.F.G*. - Lifetime reproductive success and longevity of queens in an annual social insect *Den Boer S*. - The effect of seminal fluid interactions on sperm viability in social insects *Meunier J.* - The inheritance of queen size and queen number in ants *Lecoutey E*. - Intercastes as emergency reproductives in a clonal ant *Peeters C*. - Fission of ant colonies and recurrent evolution of ergatoid queens *Innocent T*. - The influence of life history and behaviour on sex ratio evolution in a parasitoid wasp
12:30	**LUNCH**	
14:00	**Social Organization, Collective Processes & Division of Work (2)** Chair: V. Fourcassié	**Reproductive Strategies & Population Genetics (2)** Chair: A. Bourke
14:00	*Mersch D.* - Temporal organization in an ant colony *Momen S*. - An ant-like task allocation model for heterogeneous groups of robots *Robinson E*. - Decision-making and consensus-breaking: Opinion leaders in ants *Sempo G*. - Collective decision and interindividual variability in cockroaches *Bruschini C*. - Difference in venom volatiles and alarm behaviour in foundresses and workers of *Polistes* wasps *Crailsheim K.* - Honeybee-derived aggregation of swarm robots	*Jaffe R*. - Temporal genetic structure of a honeybee (*Apis mellifera*) drone congregation area: A sex club with regular clients? *Ruel C.* - Paternity sharing in the polyandrous ant *Cataglyphis cursor* *Lenoir J.C*. - Matchmaking ants *Seppä P*. - Estimation of population subdivision in family-structured populations *Saapunki J*. - Stable coexistence of two genetic lineages in one population *Pedersen J*. - The evolution of invasive traits in *Lasius* ants: Insights from the Austrian garden ant *L. austriacus*
16:00	**COFFEE BREAK**	
16:30	**Social Organization, Collective Processes & Division of Work (3)** Chair: F. Roces	**Reproductive Strategies & Population Genetics (3)** Chair: M. Chapuisat
	Sendova-Franks A. - Famine Relief in Ant Colonies *Maccagnani B*. - Asymmetry in the searching behaviour of *Bombus terrestris* *Bernadou A.* - Is the harvester ant *Messor barbarus* an optimal central place forager? Seed selection in relation to distance and habitat structure. *Lihoreau M.* - Social foraging in cockroaches	*Boulay R.* - Reproduction by colony fission in the ant *Aphaenogaster senilis*: An ecological perspective *Thurin N.* - When social parasitism allows a better understanding of the evolution of polyandry *Ugelvig L*. - Fluctuating population size in a social parasite: Consequences for genetic diversity *Aron S*. – Sib-mating in the ant *Plagiolepis pygmaea*: Adaptative inbreeding ?
19:30	**DINNER**	
21:00	**SOCIAL EVENTS**	

Monday 01/09

9:00	***Laurent Keller* - Ant behavior is modulated by complex interactions between genes and social environment** Chair: L. Sundström	
10:00	**COFFEE BREAK**	
10:30	**Social Organization, Collective Processes & Division of Work (4)** Chair: C. Detrain	**Reproductive Strategies & Population Genetics (4)** Chair: L. Sundström
	Jandt J. - The relationship between spatial organization and division of labor in the bumble bee, *Bombus impatiens* *Jost C*. - Internal organisation of *Cubitermes* nests *Pielstroem S*. - Vibrational communication organizes digging behavior in leaf-cutting ants *Bollazzi M*. - Environmental factors organize collective building for climate control in *Acromyrmex* leaf-cutting ants *Toffin E*. - Efficient nest design under control of ants density in the ant *Lasius niger*	*Barth B.* - Genetic population structure and colony fusion in the parthenogenetic ant *Platythyrea punctata* Smith (Hymenoptera, Formicidae) *Timmermans I.* - Who controls production and development of thelytokous eggs in the ant *Cataglyphis cursor* ? *Pearcy M*. - Reproductive Strategies in the genus *Cataglyphis* *Bonckaert W.* - Worker policing in the two Vespine wasps *Vespula vulgaris* and *Dolichovespula norwegica* *Ernst U.* - Worker policing in the honeybee-a job for a specialist? *Gill R.* - The regulation of reproductive allocation through 'worker policing of queens'
12:30	**LUNCH**	
14:00	**Ethology & Neuroethology** Chair: A.G. Bagnères	**Genes, Genomics & Social Biology** Chair: R. Hammond
14:00	*Stroeymeyt N*. - Side-specificity in the perception of ant recognition cues *Brandstaetter A*. - A neurophysiological approach to nestmate recognition in the carpenter ant, *Camponotus floridanus* *Avargues-Weber A*. - Learning of a spatial configuration by honeybees: The case of face-like stimuli *Roussel E*. - Shock responsiveness and learning performances of honeybees in the olfactory aversive conditioning of the sting extension reflex *Guerrieri F*. - Conditioning of *maxilla-labium* extension response in a carpenter ant	*Hasselmann M*. - Evidence for the nascence of a novel sex determination pathway in honey bees *Wang J.* - Developmental time course in fire ants *Korb J.* - What makes a termite queen – from ecology to genes *Linksvayer T*. - Deconstructing the superorganism: The genetic basis of queen-worker dimorphism in honey bees *Lucas C.* - Molecular basis of foraging and defense behaviors in the ant *Pheidole pallidula*
15:40	**COFFEE BREAK**	
16:00	**POSTER SESSION**	
18:00	**SECTIONS MEETINGS**	
19:30	**DINNER**	
21:00	**SOCIAL EVENTS**	

Tuesday 02/09

9:00 — ***Stuart West* – Social evolution in microbes**
Chair: J.J. Boomsma

10:00 — **COFFEE BREAK**

10:30

Disease & Immunity in Social Insects (1)
Chair: J.J. Boomsma

Chapuisat M. - Collective defences against pathogens in ants
Fernandez-Marin H. - Integrating hygiene and defense strategies against diseases in fungus-growing ants
Cremer S. - Pathogen detection abilities of in- and outbred ants
Deves A.L. - Phenoloxidase activity in queens in relation to the exposure risks in the ant *Cataglyphis cursor*
Lenoir A. - Endosymbionts *Blochmannia* improve growth and immune defence in the ant *Camponotus fellah*
Feldhaar H. - The transcriptome of the endosymbiont *Blochmannia floridanus* in different life stages of its holometabolous host *Camponotus floridanus*

Chemical Ecology (1)
Chair: P. D'Ettorre

Hefetz A. - The evolution of fertility signals: Uncoupling fertility from fertility signaling in the honeybee (*Apis mellifera)*.
Dapporto L. - Disproving fertility signal in paper wasps
Cournault L. - Fertility, not mating status, of ant queens inhibits workers' reproduction
Nascimento F. - Visual and odour signals of reproductive status in a paper wasp
Molet M. - Colony nutritional status modulates worker responses to foraging recruitment pheromone in the bumblebee *Bombus terrestris*
Schatz B. - Chemical mediation of a defence behaviour in an ant-plant mutualism

12:30 — **LUNCH**

14:00

Disease & Immunity in Social Insects (2)
Chair: L. Santorelli

Dedeine F. - Evolutionary dynamics of the intestinal symbiotic communities of termites
Schlüns H. - Sequence evolution of immune genes in bulldog ants

Social Insects Molecular Systematics
Chair: K. Trontti

Jansen G. - Phylogenetic analysis of the ant tribe Myrmicini: Combining molecules, time and biogeographical scenarios
Luchetti A. - Biosystematics and evolution of Central-East European termites: Mitochondrial and nuclear molecular analyses
Schluns E. - Molecular systematics of the ant genus *Camponotus*
Bernasconi C. - Genetic markers for species identification: A new cryptic species of wood ant in the Swiss Alps ?

Chemical Ecology (2)
Chair: A. Hefetz

Grasso D. - The chemical alarm system of *Formica cunicularia* (Hymenoptera, Formicidae): Glandular sources and context-dependent reactions
Turillazzi S. - Cuticular and venom peptides of paper wasps and their social parasites
Couvillon M. - Mechanisms of guarding and nestmate recognition in honey bees and stingless bees
Blight O. - Intraspecific aggression and cuticular signature variations in an unicolonial population of Argentine ant in Southern Europe
Nehring V. - Nestmate recognition in the ant *Camponotus herculeanus*: The information is in the branches
Bos N. - Does my enemy smell like food? Cuticular hydrocarbon blends in different contexts

16:00 — **COFFEE BREAK**

16:30

Anatomy & Morphology
Chair: J. Billen

Kelber C. - Correlating neuroanatomical traits and social organization in attine ants
Sobotnik J. - The infuence of juvenile hormone analogue upon inner anatomy in *Prorhinotermes simplex*
Moors L. - The morphology of the male reproductive system in the honeybee, *Apis mellifera*

Coevolution Between Social Insects & Social and Macroparasites
Chair: J.C. de Biseau

Furst M. - Does violence pay ? Why some *Myrmica* ant colonies may be more prone to parasitic *Maculinea* butterflies than others
Cervo R. - Morphological and behavioural co-evolution in a host-parasite pair of paper wasps
Beani L. - Parasites at leks: *Xenos vesparum* (Strepsiptera, Stylopidae) affects the reproduction of *Polistes* wasps

19:30 — **DINNER**

21:00 — **SOCIAL EVENTS**

Wednesday 03/09

9:00 — ***Tom Wenseleers* - Altruism in insect societies and beyond: voluntary or enforced?**
Chair: J. Herbers

10:00 — **COFFEE BREAK**

10:30

Cooperation & Conflicts in Social Systems (1)
Chair: J. Herbers

Boomsma J.J. - Monogamy and the evolution of eusociality: A new way of looking at Hamilton's rule

Zanette L. - Policing in bumble bees: Who is in control?

Amsalem E. - Chemical signaling in *Bombus terrestri*s: Do workers advertise sterility to avoid aggression?

Liebig J. - Direct evidence for the role of alkanes in worker policing and larva recognition in ants

Miller S. - Drifting in wild populations of *Bombus Terrestris*

Vitikainen E. - Multiple mechanisms contributing to sex ratio allocation in the ant *Formica exsecta*

Biodiversity, Community Ecology & Invasion Biology (1)
Chair: J.L. Mercier

Ivens A. - Ants farming aphids: A joint experimental and theoretical approach to the study of mutualism

Saikkonen T. - Stand level impact of ant-aphid mutualism on invertebrates

Domisch T. - Effects of ant-aphid-tree interactions on C and N fluxes and biodiversity in boreal forests

Renard D. - Myrmecochory from top to bottom and back again: The importance of secondary seed transport within ant nests for an ant-dispersed tropical savanna shrub

Orivel J. - Dynamics of the association between a long-lived understory myrmecophyte and its specific associated ants

Leponce M. - Vertical stratification of ant assemblages in a Panamanian rainforest

12:30 — **LUNCH**

14:00

Cooperation & Conflicts in Social Systems (2)
Chair: T. Monnin

14:00

Sundstrom L. - Multiple queening and reproductive sharing in *Formica* ants

Cheron B. - The mechanism of queen selection during queen replacement in a fission-performing ant

Cini A. - Lack of conflict over nest inheritance between workers and subordinate foundresses in the social wasp *Polistes dominulus*

Poitrineau K. - Evolution of resource sharing as a risk avoidance strategy: From individual strategies to population dynamics

Aanen D.K. - The social evolution of somatic fusion

Biodiversity, Community Ecology & Invasion Biology (2)
Chair: J. Korb

Roisin Y. - Vertical distribution of termites in a Panamanian rainforest

Bourguignon T. - Disentangling a complex tropical termite food web using carbon and nitrogen stable isotopes

Perdereau E. - Origin, establishment and expansion strategies of an American termite introduced in France

Vonshak M. - The ecological consequences of ant invasion: The impact of *Wasmannia auropunctata* on ant species diversity in its invasive range

Orgeas J. - Spartans in ants : Evidence of local resistance of a native species to the invasion by Argentine ant in Corsica

Schmidt A. - Invasive or native? Population genetics of pharaoh ants in Central- and Southern Thailand

16:00 — **COFFEE BREAK**

16:30

Biodiversity, Community Ecology & Invasion Biology (3)
Chair: Y. Roisin

Solida L. - A comparative analysis of microhabitat segregation in two sympatric species of *Messor* harvester ants

Castracani C. - Ant-fauna as ecological indicator in the Mediterranean ecosystems of the Castelporziano Presidential Reserve (Rome, Italy)

Santini G. - Spatial patterns of the ant *Crematogaster scutellaris* (Hymenoptera, Formicidae) in a simplified ecosystem

18:00 — **Closing Ceremony**

19:30 — **BANQUET**

21:00 — **PARTY**