

PROGRAM

Sunday 11th

17:00-18:30: Registration

Monday 12th

08:00-09:15 Registration & Poster Session 1 Set-Up

09:15-09:30 Welcome

09:30-10:30 **Plenary talk - GARETH JONES**

BAT ECHOLOCATION - MOLECULAR EVOLUTION, ADAPTATION AND COMMUNICATION

10:30-12:30 Symposium 1 - **BRAIN PROCESSING OF AUDITORY SIGNALS**

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| 10:30 | Isabelle George | Functional representation of learned communication signals in the songbird brain |
| 10:50 | Robert C. Liu | Of Mice and Moms: Auditory processing of behaviourally relevant vocalizations |
| 11:10 | Chris Petkov | Relating human and monkey brain function for communication |
| 11:30 | Jannis Hildebrandt | Neural Adaptation in the auditory system of grasshoppers: competing demands for object recognition and localization |
| 11:50 | Hoke Kim | Signal selectivity and sensory-motor gating in the midbrain of frogs |
| 12:10 | Christine Portfors | Efficient encoding of behaviourally relevant sounds in the auditory midbrain |

12:30-14:00 *Lunch* & Poster Set-Up (Session 1)

14:00-16:00 Symposium 2 - **ADAPTATIONS TO ENVIRONMENTS**

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| 14:00 | Simone Baumann-Pickering | Diel adaptation of echolocation click characteristics of melon-headed whales to changes in ambient noise |
| 14:20 | Lucia Ziegler | Fixed or flexible? Ecological and evolutionary implications of plastic strategies in acoustic communication |
| 14:40 | Eileen Hebets | Seismic signalling in a heterogeneous environment - insights from wolf spiders |
| 15:00 | Alexander Kirschel | Testing alternative hypotheses for evolutionary diversification in an African songbird |
| 15:20 | Rafael Marquez | Environmental determinants of chorusing in Iberian Hyla: Acoustic monitoring of populations at thermal extremes |
| 15:40 | Sandra Goutte | Evolution of advertisement calls in torrent habitat: communicating despite noise |

16:00-16:30 *Coffee Break* + Poster Session 1

16:30-18:30 Symposium 3 – **VOCAL SIGNATURE**

16:30	Mirjam Knornschild	Vocal Signatures in <i>Saccopteryx bilineata</i> - Insights from a Vocal Learning Bat
16:50	Marta Manser	Individual vocal discrimination in meerkats: absent or not recognized
17:10	Andrew Radford	Group-level vocal signatures and responses in social bird
17:30	Agnes Candiotti	Individual vocal flexibility in female Diana monkeys
17:50	Caroline Casey	Vocal communication in male northern elephant seal competitive interactions: honest or learned associations?
18:10	Marina Scheumann	Expression of affect-intensity and identity in infant isolation calls of domestic cats

19:00 **ICEBREAKER RECEPTION**

Tuesday 13th

08:45-10:00 **Plenary talk - TECUMSEH FITCH**

BIOACOUSTICS AND HONESTY IN VERTEBRATE COMMUNICATION: BEYOND HANDICAPS

10:00-10:30 *Coffee Break*

10:30-12:30 Symposium 4 – **COMMUNICATION NETWORK**

10:30	Michael Greenfield	Choruses as communication networks: Adaptations, emergent properties, and feedback loops
10:50	Chris Templeton	The role of social factors for song learning in juvenile song sparrows
11:10	Marc Naguib	Effects of personality on singing and spatial behaviour in communication networks of great tits
11:30	Sol Camacho	Acoustic communication networks in the Winter wren, <i>Troglodytes troglodytes</i>
11:50	Andries Ter Maat	Zebra finch conversations
12:10	Heidi Thomsen	Vocal matching through imitation of contact calls in Peach-fronted conures (<i>Aratinga aurea</i>)

12:30-14:00 *Lunch*

14:00-16:00 Symposium 5 - **IMPACT OF ANTHROPOGENIC NOISE**

14:00	Arthur Popper	Overview effects of anthropogenic sounds
14:20	Robert Dooling	Overview of basic principles of anthropogenic effects
14:40	Ole Larsen	Environmental acoustics - basic principles
15:00	Darlene Ketten	Noise impacts in air-Adapted ears: Mechanisms of damage, recovery, and permanent loss
15:20	Henrik Brumm	Response of birds to anthropogenic sounds
15:40	Anthony Hawkins	Aquatic animals and human-generated sound

16:00-16:30 *Coffee Break*

16:30-18:30 **POSTER SESSION 1**

18:30-18:40 Dismantling of posters for session 1

Wednesday 14th

08:45-10:00 **TECHNICAL SESSION**

- 9:00 Ian Agranat A demonstration of new hardware and software for bioacoustics research
- 9:20 Thomas Folegot Towards an Operational Anthropic Ocean Noise Prediction System
- 9:40 Didier Mauuary An environmental-based classification strategy of echolocation signals with applications to marine mammals and bats.

10:00-10:30 *Coffee Break*

10:30-12:30 **NON-THEMATIC SESSION 1**

- 10:30 Andrew Horn Effect of nest acoustics on nestling begging calls
- 10:50 Amandine Gasc Assessing biodiversity with sound: what do acoustic diversity indices measure?
- 11:10 Sabine Schmidt From echolocation to communication: on the functional significance of landing strophes in the bat, *Megaderma Lyra*.
- 11:30 Joël Gilbert Elephant trumpet calls, an analogy with brass musical instruments
- 11:50 Marco Sala Acoustic behaviour in butterfly social parasites: a comparison between cuckoo and predatory species
- 12:10 Nicole Geberzahn Song learning in male and female songbirds: from whom to learn when both sexes sing?

12:30-14:00 *Lunch & Set-up of Posters for session 2*

14:00-20:00 **EXCURSION** Ile de Ré

Thursday 15th

08:45-10:00 **Plenary talk – JEAN-PIERRE GAUTIER**
FOUNDING RESEARCHES ON ACOUSTIC COMMUNICATION IN PRIMATES

10:00-10:30 *Coffee Break*

10:30-11:50 Symposium 6 – **HORMONES & COMMUNICATION**

- 10:30 Sebastien Deregnaucourt Melatonin affects the temporal pattern of vocal signatures in birds
- 10:50 Cornelia Voigt Effects of social status, sex and hormones on song in cooperatively breeding white-browed sparrow weavers

- 11:10 Stefan Leitner Impact of developmental stress on hormones, song and song perception in zebra finches
- 11:30 Emilie Perez Stress-induced vocalisations in male Zebra Finches: clues of expression of emotional state?

11:50-14:00 *Lunch* & **POSTER SESSION 2**

14:00-16:00 Symposium 7 – **INTER SEXUAL COMMUNICATION**

- 14:00 Elodie Briefer Fallow buck groans: A robust example of honest signals
- 14:20 Megan Wyman Investigating intra- and intersexual communication in the context of hybridization within two polygynous deer species
- 14:40 Michelle Hall Performance limits, signal diversity, and indicators of body size and age in the purple-crowned fairy-wren
- 15:00 Amiyaal Ilany Singing rock hyraxes exploit conspecific calls to gain attention
- 15:20 Benjamin Charlton The information content of giant panda (*Ailuropoda melanoleuca*) sexual calls
- 15:40 Kirill Mark Oci Geographic variation in the pair-forming acoustic communication of a duetting bush-cricket in the Carpathians

16:00-16:30 *Coffee Break* & **POSTER SESSION 2**

16:30-18:30 Symposium 8 – **SOUND PRODUCTION AND HEARING MECHANISMS**

- 16:30 Fernando Montealegre Sound radiation in crickets
- 16:50 James Windmill Insect tympanal ears: Sophisticated mechanics in 'simple' hearing organs
- 17:10 Michael Fine A potential intermediate in the evolution of superfast sonic swimbladder muscles in fishes
- 17:30 Marcos Gridi-Papp The onset of phonation in anuran vocal folds
- 17:50 Franz Goller Control of sound frequency in bird song - an integrative view
- 18:10 Coen Elemans Superfast muscles set maximum call rate in echolocating bats

20:00 ***SOCIAL DINNER*** at Restaurant Le Mistral

Friday 16th

08:45-10:00 **General Assembly Meeting (GAM)**

10:00-10:30 *Coffee Break*

10:30-12:30 Symposium 9 – **UNDERWATER COMMUNICATION**

- 10:30 Gianni Pavan Acoustic detection of beaked whales. comparison of different equipments and techniques
- 10:50 Rocio Prieto Gonzales Estimate the density of Antarctic blue whales using their calls from a passive acoustic sensor

11:10	Charlotte Curé	Killer whale playbacks induce modifications in cetaceans' behaviour
11:30	Clara Amorim	As sexy as my song: relation between vocal behaviour and mating success in the Lusitanian toadfish
11:50	Frederic Bertucci	Role and information content of male aggressive sounds in a cichlid fish
12:10	Ilaria Spiga	Studying the effect of anthropogenic noise on populations of wild fish: techniques and logistics

12:30-13:40 *Lunch*

13:40-16:00 Symposium 5 - **NON-THEMATIC SESSION 2**

13:40	Dmitry Vorontsov	High temporal resolution in the ear of noctuid moth (<i>Lepidoptera, Noctuidae</i>)
14:00	Tabitha Price	Vervets revisited: A graded referential alarm calling system?
14:20	Maria Luisa da Silva	Individual acoustic recognition in a lekking suboscine bird from the Amazon forest: the Screaming piha <i>Lipaugus vociferans</i>
14:40	Rohini Balakrishnan	Eavesdropping by bats on acoustic signals of katydids in a paleotropical evergreen forest
15:00	Elisabeth Delevoeye	An inhomogenous granular chain linked to a substrate within crista acustica
15:20	Tomasz Osiejuk	Frequency shift of song types enables neighbour-stranger discrimination in the ortolan bunting (<i>Emberiza hortulana</i>)
15:40	Dinesh Bhatt	Dawn song rate in male Pied Bush Chat in relation to female fertility

16:00-16:30 *Coffee Break* & **POSTER SESSION 2**

16:30-18:30 Symposium 10 – **SIGNAL PROCESSING**

16:30	Kurt Hammerschmidt	Categorizing vocal repertoires
16:50	Karl-Heinz Frommolt	Estimating the number of calling individuals in the base of multichannels recordings
17:10	Chloé Huetz	Localizing individuals from their vocalisations
17:30	Vivek Nityananda	Auditory stream segregation in gray treefrogs, <i>Hyla chrysoscelis</i>
17:50	Sandor Zsebok	Classify or not? Quantifying repertoire size when it seems impossible
18:10	Juha Tantt	Non-linear phenomena in Petrel sounds (<i>Pterodroma sp.</i>)

18:30-18:40 Dismantling of posters for session 2