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Professional positions

1995 -	Professor of Ecology - Université François Rabelais de Tours, France.
1993 - 1995	Swiss NSF Advanced Scientist at the University of California, Santa Barbara UCSB, Dept. of Ecology and Evolution, USA.
1991 - 1993	Oberassistent at the ETH- Zürich, Switzerland ¹
1989 - 1991	'Assistant' at the Institute of Plant Sciences ETH Zürich

Titles, Scholarships & Awards

2016-2020	Visiting Chair on bioinspired technology at the LETI/CEA (Grenoble) ²
2015	Visiting scholar on the "ESPCI-Paris Tech Chaire Paris Science" (2 weeks)
2014-today	Professor classe exceptionnelle, 2ème échelon (final step in the promotion scale) ³
2013-2018	Senior Member of the IUF-Institut Universitaire de France ⁴
2010-2014	Professor classe exceptionnelle ⁵
2008-2010	Visiting Scholar (délégation) INRA, dept. of Forestry.
2006	Distinguished Invited Professor, University of Arizona, Insect Science Center, USA (1 month).
2006-2007	Visiting Scholar CNRS.

¹ Assistant Prof. positions, which would be the nearest equivalent today, did not exist at that time

² This chair includes Ph.D. students around two topics at the interface between insect science and microtechnology (microfluidics and neuromorphic computing)

³Nomination made at the national level, in 2014 there was a single such position for the whole country in ecology, biodiversity & env. sciences

⁴ Membership to the IUF is highly competitive, the senior positions more so than the junior ones. As of today, there are less than 10 junior and senior holders in the country for the fields covering ecology, organismal biology and Env. Sciences. To obtain both a junior fellowship and a senior one is truly extraordinary. A fellowship has a duration of 5 years, entails a strong reduction in teaching (by 66%) and some recurrent money. Faculty members of all ranks can apply.

⁵ Nomination made at the national level, only about 2 such positions per year for the whole country in ecology, biodiversity & env. sciences

2003	Professor 1 ^{ère} classe ⁶
2001-2006	Junior Member of the IUF-Institut Universitaire de France
1990	Sabbatical leave at the University of Strathclyde, Glasgow, Dept. of Modelling Sciences and Statistics, United Kingdom.
1989	Ph.D. ETH Zürich, 'Searching behaviour of leafminer parasitoids: mechanisms and significance'. cum laudatio . Awarded the ETH medal for the best 10% theses (V. Delucchi ETH - R. Wehner UZH).
1984	Batchelor in Natural Sciences ETH Zürich.

Supervision of Ph.D. Students (either the job right after the Ph.D. or the actual job are mentioned)

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1. *R. Meyhöfer, 1992-1995, 'Vibrational signals in a leafminer-parasitoid system: interactions on the close range'. Assistant Professor University Hannover, Abt. Pflanzenschutz und Phytopathologie (D).*
 2. *S. Bacher, 1993-1996, 'Vibrational signals in a leafminer parasitoid system: the sensory ecology of a leafminer in a tritrophic context'. Assistant Professor University Fribourg (CH)*
 3. *I. Djemai, 1996 - 2001, 'Interactions vibratoires dans un système hôte-parasitoïde'. Works as a biostatistician in a biomedical company.*
 4. *D. Giron, 1999-2002 'Ecologie nutritionnelle chez les parasitoides : mécanismes et conséquences'. CNRS Research Scientist.*
 5. *S. Pincebourde, 2002-2005 'Géométrie de la canopée, régime thermique et risque de parasitisme'. CNRS research scientist.*
 6. *A. Fertin, 2003-2007, 'Grains de sable, avalanches et physique d'une construction animale : l'entonnoir du fourmillion'. Ingénieur d'Etude INSERM Marseilles.*
 7. *F. Dupuy, 2005-2009, 'Neurobiologie du système de fuite du grillon : imagerie calcique & multimodalité '. Joint supervision with C. Lazzari (Tours). Post-doc University Cambridge (UK).*
 8. *J. Defrize, 2006-2010, 'Aggressive and defensive crypsis'. Went into a company specialized in insect mass production for human consumption as scientific director.*
 9. *J. Voise, 2007-2011, ' Capillary waves and echolocation in water surface insects'. Went into ecological consulting.*
 10. *G. Bimbard, 2008-2013, 'Kinematics and aerodynamics of flapping flight: the ground effect'. Teacher.*
 11. *A. Humeau, 2011-2015, 'Moving on sandy slippery slopes: the kinematics of prey escaping the antlion pit'. Post-doc.*
 12. *E. Quenta 2014-2017. Community ecology of glacier modulated ponds of the Andes. Erasmus+. Joint supervision with O. Dangles (Quito, Equator). In program.*
 13. *T. Cahon, 2015-2018. 'The energy efficiency of the soldier fly'. CIFRE thesis with the private company NEXTALIM. In program.*
 14. *M. Jaffard, 2015-2018.'The microphysics of insect olfaction'. Joint supervision with G. Krijnen (Twente, NL). In program.*

Post-doctoral fellows (either the job right after the Ph.D. or the actual job are mentioned)

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1. *Dr. A. Rivero-Lynch, post-doc Marie-Curie 1997-1999. 'Quantification of nutrient allocation to egg production in parasitic wasps'. CNRS researcher (Montpellier).*

⁶ Nomination at the national level, only 3-4 such positions per year for the whole country in ecology, biodiversity & env. sciences

2. Dr. P. Dettorre, post-doc Marie-Curie 2000 'Eggload dynamics in a wild parasitoid'. Professor, University Paris XI.
3. Dr. P. Capparoy, post-doc 2002-2003. Projet CICADA. Left Science for computer industry.
4. Dr. I. Coolen, post-doc 2003-2005. Projet CICADA. Post-Doc ANR in Toulouse (E. Danchin), then left Science management of human resources (British Telecom).
5. Dr. T. Insausti, post-doc 2005-2009. Post-doc University Tours.
6. Dr. J. Sueur, post-doc 2006 – 2007. Insect vibratory communication (6 months). Assistant Professor MNHN Paris
7. Dr. E. Gandouin, post-doc 2006 – 2007. Paleoenvironment and Chironomes in the Loire River. Funding Val de Loire (7 mois). Assistant Professor Aix en Provence.
8. Dr. N. Morehouse, Incoming (USA) post-doc Marie-Curie 2009-2011. Phenotypic plasticity and insect color. Assistant Prof. University of Pittsburgh (USA)
9. Dr. A. Llandres, postdoc Region 2011-2012. Physiology and ecology of color change and mimicry in crab spiders.
10. Dr. A. Llandres, postdoc Fondation de France 2012-2014. Conservation biological control against pests in agroforestry.
11. Dr. A. Llandres, senior postdoc Projet Region 2014-2015. Conservation biological control against pests in agroforestry. Tenured scientist position at CIRAD, Montpellier.
12. Dr. R. Richard, postdoc Fondation de France 2014-2016. Strip management under trees to enhance biological control in Agroforestry Systems. Post-Doc Amsterdam University (NL).

Visiting scientists and Sabbatical fellows

- 2017-2018 Dr. E. Muller, University of California, Santa Barbara, USA. Studium fellow.
- 2016 Dr. E. Muller, University of California, Santa Barbara, USA. 1 month as invited professor working on dynamic energy budgets.
- 2015 Prof. N. Zoroa, University Murcia, Spain. 1 month as invited Professor, working on stochastic discrete processes in population dynamics.
- 2012-2013 Prof. A. Woods, University Montana, USA. 1 year sabbatical, working with S. Pincebourde and me. Supports from University of Montana and Tours.
- 2012-2013 Mr. O. Verdeny, Estación Experimental de Zonas Áridas, Almería, Spain. Spanish funding for 6 months. Ph.D. student.
- 2011-2012 Prof. S Anita, mathematician specialized on control theory from Iasi, Romania, 1 month each year, working with C. Suppo and me. Support University of Tours.
- 2009 Prof. Ed McCauley, Canada Research Chair in Population Ecology, University of Calgary, Alberta, Canada & Prof. University California Santa Barbara, Director NCEAS. Chaire d'excellence 'Studium'. Now vice-president for Research, university Calgary.
- 2007 Prof. Ed McCauley, Canada Research Chair in Population Ecology, University of Calgary, Alberta, Canada. 2 weeks. Canadian funding.
- 2002 Prof. A. Weis (University of California, Irvine). 1 month. Declined due to health problems. IUF funding.
- 2000 Prof. J. van Loon (University of Wageningen) 4 months. CNRS funding.
- 1999 Mr. A. Urbaneja, doctorant Université de Valence, Espagne, 'Analyse quantitative du comportement chez les hyménoptères parasitoïdes'. 2 months. Spanish funding. Head of plant protection in IVIA, Valencia, Spain.

Master students

Olivier Roux, 1991, 'Réponse fonctionnelle de Sympiesis sericeicornis: une approche mécanistique basée sur l'étude du comportement'. ETH Zürich. Ph.D. Thesis at Zürich ETH.

- Catherine Bertchy*, 1992, 'Concurrence directe entre femelles du parasitoïde Trichogramma maidis', ETH Zürich. Ph.D. Thesis at Zürich ETH.
- Roman Kuhne*, 1993, 'Analyse des Such- und Parasitierungsverhalten von Heterospilus prosopidis (Hymenoptera: Braconidae)', ETH Zürich. Left Science.
- Hansruedi Hebeling*, 1993, 'Analyse des Such- und Parasitierungsverhalten von Anisopteromalus calandrae (Hymenoptera: Pteromalidae)', ETH Zürich. Ph.D. Thesis at Zürich University.
- Imen Djemai*, 1996, 'Le jeu de la princesse et du monstre appliqué au relations hôte-parasitoïde'. Ph.D. Thesis at University Tours.
- David Giron*, 1999, 'Nutrition chez les parasitoïdes adultes'. Ph.D. Thesis at University Tours.
- Cyrill Conord*, 2001, 'Microclimat et relations proie-prédateur', Ph.D. Thesis at University Grenoble.
- Sylvain Pincebourde*, 2001, 'Ecologie de la couleurs chez des coléoptères de forêt tropicale'. Ph.D. Thesis at University Tours.
- Cecilia Boutry*, 2004, 'Mimétisme imparfait'. Ph.D. Thesis at University Akron USA (Prof. T. Blackledge, Akron University).
- Romain Richard*, 2006, 'Allocation de ressources et résorption : aspects évolutifs et mécanismes'. Ph.D. Thesis at University Calgary (CA, Prof. Ed Mccauley).
- Mélanie Body*, 2009, 'Substrats utilisés dans les dépenses énergétiques au cours de toute une vie d'un parasitoïde'. Ph.D. Thesis at University Tours.
- Precilia Cochard*, 2014, 'Mesures des déformations de la surface de l'eau durant l'ontogénie et forces de tension de surface chez *Gerris paludum*'. Ph.D. Montreal, Canada.
- Thomas Cahon*, 2015. Repeated sampling of carabid and their haemolymph for metabolite analysis in an agroforestry system. Ph.D. Tours.
- Antoine Cribellier*, 2016. The waterstrider strides. Ph.D. Wageningen University (NL).
- Florent Figon*, 2016. The color mimicry of spiders. ENS Lyon.

Ph.D. and 'Habilitation'⁷ committees

referee (*rapporteur – implies writing a report and participating to the jury during exam*)

HDR Dr. L. Gaume (2011, Montpellier, F), Dr. N. Mondy (2008, Lyon, F), Dr. F. Courchamp (2002 Université Paris XI Orsay, F), Dr. C. Godin (2002, U. Montpellier II, F), Dr. B. Stadler (1999 Universität Bayreuth, D), Dr. W. Völkl (1997 Universität Bayreuth, D), Dr. JP. Monge (1998 Université Tours, F), Dr. X. Bonnet (2001 Université Poitiers, F),

Ph.D. Theses J. Maino (2015 Amsterdam/Melbourne), H. Droogendijk (2014, Twente, NL), F. Bernard (2012, INAPG), R. Müllan (2012, Univ. Wien, Austria), E. Morley (2011, University of Bristol, UK), P. Pellison (2011, Lyon), J. Sorridas Mellado (2011, University of Valencia, Spain), R. Kottumakulaljaganatharaja (2011, University of Twente, NL), R. Brechbühl (2009, Fribourg, Suisse), P. Pelosse (2008, Lyon), S. Venner (2002 Université Nancy, F), V. Cuvillier (2002 Université Tours, F), M. Fritschze (2001 Université Neuchâtel, CH), E. Gravot (2000, Paris VI, F), O. Plantard (1997, Paris VI, F), C. Cordillot (1997 Université Neuchâtel, CH), H. van Roermund (1996, University Wageningen, NL), Y. Chen (1996, INRA Avignon, F).

examiner (*implies participating to the jury during exam*)

⁷ The Habilitation, or HDR is specific to several EU countries and represents a nearly obligatory step towards scientific independency, in particular for directing Ph.D. students without further supervision. The booklet then produced contains chosen papers from the last 10 years or so, as well as a deeper discourse on the future of the field and the candidate.

HDR Dr. S. Pincebourde (2017, Tours), Dr. R. Godoy-Diana (2014, ESPCI), Dr. B. Thiria (2014, Paris 11), Dr. C. Bouget (2013, Orléans), Dr. J. Sueur (2012, Paris), Dr. Giron (2009, Tours), Dr. Lengagne (2009, Lyon), Dr. O. Dangles (2007, Tours), Dr. V. Burlat (2007, Tours), Dr. C. Magal (2007, Tours), Dr N. Rowe (2003 Université Montpellier, F).

Theses Cleo Bertelsmeier (2013, Paris Sud Orsay), C. Vinauger (2011, Tours), F. Dupuis (2009, Tours), A. Bodin (2008, Tours), S. Gaba (2005, Tours), B. Jaloux (2003 Tours), T. Boivin (2003 Université Avignon, F), M. Gauthier Clerc (2001 Université Tours, F.), T. Spataro (2001 Université Lyon, F), C. Barbraud (1999 CNRS Chizé, F), F. Mugeot (1999 CNRS Chizé, F), N. Gauthier (1997 Université de Tours, F.).

Grants (from 2003 onwards)

CNRS International RTP (réseau thématique pluridisciplinaire) CNRS. 2016. PI: J. Casas. Seeding money for exploration 5 000 €.

Laser equipment for fluid flow visualization, Tomo-PIV system. CPER 2016-2017. PI: J. Casas. 480 000 €.

The microphysics of insect olfaction, a Ph.D. grant. 2015-2018. Bourse Région Centre. **PI: J. Casas,** 102 240 €.

PROTECTODO- dragonfly conservation in a changing climate. Région centre 2015-2018. PI: S. Pincebourde. 200 000 €.

Strip management under trees to enhance biological control in Agroforestry Systems. Projet Fondation de France 2014-2016. PI : J. Casas: 61 000 €.

AGROECO: Pest management through conservation biological control in agroforestry. Région centre 2013-2016. PI: J. Casas. 197 000 €.

IPat: Intelligence des patrimoines : conservation et gestion des patrimoines naturels et culturels. 2014-2017. Région Centre (PI : P. Vendrix CNRS. Directeurs adjoints : C. Beaumont (INRA), Suspène Arnaut (Univ-Orléans) J. Casas (Univ-Tours)) 1 000 000 €.

The physical ecology of insects. A scientific documentary film. **CNRS 20 000 €.** PI (s). J. Casas & CJ Parisot (film maker). 2012.

Designing pest management through conservation biological control in agroforestry. Projet Fondation de France 2012-2014. PI : J. Casas: 82 000 €.

Color changing in a crab spider. Grant for a 1-year post-doc Position. 2011-2012. Région Centre. PI: J. Casas 42 000 €

MICROCLIMATE. Cascading from global to micro-climate: thermal budgets of a plant-herbivore interaction. Projet ANR blanche 2011-2015, PI: Sylvain Pincebourde in my group. 240 000€. My involvement: 10%

ENDOFEEED. Evolution and Adaptive Significance of the Endophagous Feeding mode in Insects. Projet Région 2010-2013. PI: D. Giron in my group. 200 000€. My involvement: 10%

ENTOMOPTER: The physics of insect-inspired flapping flight. 2008-2012. Projet ANR. PI: Ramiro Godoy-Diana (ESPCI, Paris). My involvement: 30% I got 180 000€ for my lab.

CNRS RTP 'Bionique'. 2009-2011. I was PI for a network of a half dozen labs for the years 2009-2011, with some 15 000-10 000€/year to organize meetings & scientists exchanges.

ECOREN: Ecophysiology of endophytes insects. 2005-2008. Projet ANR. PI: D. Giron in my group. 150 000€. My involvement: 10%.

CILIA : Customized Intelligent Life-inspired Arrays. 2005-2009. Programme Européen IP', Future and Emergent Technologies (IST). PI : A. Offenhaüser (D). **Coordinator of one WP.** Eligible costs 7.7 Mio €. I got 800 000€ for my lab.

CICADA : Cricket Inspired PerCeption and Autonomous Decision Automata. 2002-2005. Programme Européen 'Lifelike Perception', Future and Emergent Technologies (IST). **European Coordinator (PI):** J . Casas. Eligible costs 3 Mio €. I got 500 000€ for my lab.

Ecologie physique des organismes. 2002-2004. ACI Ecologie quantitative (ministère Recherche). PI: J . Casas.

Editor in chief

Advances in Insect Physiology (2008 - 2015), co-editor with S. Simpson (Australia). This series ranked *then* invariably in the top 5 in the ISI category 'Entomology'.

Editorial board

2016-	Insects as Feed and Food. Wagening University Press, a new journal for a hot topic.
2014-	Current Opinion in Insect Science. A new entry in an otherwise well known series.
2012-	Journal of the Royal Society Interface. IF=4.4, Q1 Interdisciplinary. This is the Society's cross-disciplinary flagship publication promoting research at the interface between the physical and life sciences. Both sides of the interface are considered equally. I am one of the only two Editorial board members covering the fields of organismal biology, ecology and biomimeticism. I have been asked to serve two terms of 3 year, so far up to 2018.
2012-	Biology Letters , a journal of the Royal Society of London. I have been asked to serve two terms of 3 year, so far up to 2018.
2010-	Frontiers in Physiology: invertebrate physiology
2010-2014	Oecologia. Served one term.
1998-2004	Ecological Letters. I did belong to the core team M. Hochberg assembled to create this journal and to put it on its meteoric trajectory. Served one term.
1996-1997	Acta Oecologia

Referee for journals

(partial counting started in 2007) - 55 different journals, and counting

Acta Oecologia, Agronomy for sustainable development (2015), American Naturalist (2007, 2008, 2014, 2015), Animal Behaviour (2010,2011,2014,2015), Arthropods Structure and Development (2016), Basic and Applied Ecology (2008, 2016), Behavior, Behavioral Ecology (2007), Behavioural Processes (2008, 2009), Behavioral Ecology and Sociobiology (2011), Biocontrol (2009, 2016), Bioinspiration and Biomimetics (2014 2x, 2015, 2016), Biological Control (2009, 2x), Biological Journal of the Linnean Society (2011, 2013,2014,2015), Biological Reviews (2013), BMC Evolutionary Biology (2014), Central European Journal of Biology (2011), Comparative and Integrative Biology (2015), Current Biology (2008, 2015), Ecology (2007, 2010,2012), Ecology Letters

(2007,2012,2014), Ecological Modelling (2011), Ecological Entomology (2012), Entomologia Experimentalis et Applicata (2007,2009 2x,2011,2012,2013,2014,2015,2016), Ethology (2012, 2016), European Journal of Plant Pathology (2012), Evolution (2010), Evolutionary Ecology (2013), Functional Ecology (2007, 2008, 2009,2013), Frontiers in Zoology, Frontiers in Ecology and Evolution (2016), Global Change Biology, IEEE Sensors (2011), Insects (2012), Interface: Royal Society (2008, 2009, 2010, 2011, 2013, 2014 4x, 2015), Journal of Animal Ecology (2007, 2012,2013), Journal of Applied Ecology (2014), Journal of Asia-Pacific Entomology (2014), Journal of Comparative Physiology A (2007 2x), Journal of Experimental Biology (2009,2010,2011,2013,2014,2015,2016), Journal of Neurophysiology (2016), Journal of Theoretical Biology (2007,2011,2015), Journal of Ethology (2016), Journal of Insect Behavior, Journal of Insect Physiology (2011,2012,2013,2014,2015), Journal of Bionic Engineering (2011), Journal of Pest Management (2013), Naturwissenschaften- Nature, Nature communications (2016), Science (2011, 2014, 2016), Neotropical Entomology (2016), New Phytologist (2014), Oecologia (2009, 2x, 2014), Oikos (2008 2x, 2010), Pest Management Science (2014), Physical Biology (2015), PLOS One (2009, 2010,2012,2013), Proceedings of the Royal Society B (2007,2010,2012,2014 2x, 2016), Science (2007,2013).

Ad Hoc Referee for major book publishers

M. Klowden (2013) **Physiological Systems in Insects**. 3rd Ed. Academic Press. 682 pp.

M. W. Denny (2016) **Ecological Mechanics**. Princeton University Press. Ca 600 pp.

External reviewer

ANR blanche (2005, 2006, 2007, 2008) and ANR biodiversité (2007).

Prix 'La recherche' (2006). Prix des meilleures thèses 'Le Monde' (2004, 2006).

NERC (2013), NSF (2007, 2011)), Swiss NF, EU (IST-FET), DLR (Germany) : Bionics call for tenders (2007 & 2008), Royal Society (intl. Collaborative grants, 2009).

University of California Davis USA (Promotion distinguished Prof. J. Rosenheim, entomology & ecology prey-predator systems)

University of Akron USA (2007, tenure Associate Prof. T. Blackedge, spider evol. biomechanics)

University of Mass. Amherst USA (2009, full Prof. D. Irschick, biomechanics, evol. Physiology of lizards)

University of New York Binghamton USA (2009, distinguished Prof. R. Miles, mech. Engineering, MEMS, insect bioacoustics)

NWO_NL 2007, Spinoza prize to Prof. M. Dicke, (**2.5 million euro per award; prize larger than Nobel's prize**).

Many assessments of laboratories within France (Labos de Pasteur, Le Maho, Clobert, INA Lyon Febvay, Najdt Museum, Renou Museum, INRA Orléans Roques, INRA Nice Argotech), sometimes as president of the committee (2006 , 2007).

ERC Senior grants (2010, 2012,2013).

INRA thesis proposal (2011).

IUF Senior (2011- McKey), IUF Junior (2015 Renault)

APR Pesticides – Ministère Agriculture (2012)

Autrian Science Fund -FWF (2014)

Swiss Academy of Science, Benoit "Swiss Nobel Prize" Prize (2014, 2015) -L. Keller

University of Strathclyde, Glasgow (UK), promotion Prof. J. Windmill (2014)

University Minnesota (USA)- Endowed Chair for Prof. G. Heimpel (2015)

University of Bremen (D) Professorship in "Biological structures and biomimetics" – expert analysis of Prof. Dirkes application. (2015)

DFG project (2015)

New Zeland Marsden fund project (2015)
 Ben-Gurion University, Israel, Promotion of Prof. Ovadia to full Professor (2015)
 University of California, Davis, for promotion of Prof. S. Combes to associate Professor (2016).

Organising conferences, symposia

- 2015 First international meeting on natural and human heritage, Tours (ca. 40 participants).
 2014 Scientific and organizing committee of the workshop 'Role of climatic heterogeneity across spatial and temporal scales in organisms' response to global warming', Loches June (Ca 50 persons).
 2012 Member organizing committee for the Journées de l'IUF, Tours, June (ca 150 persons).
 2012 Member of the Scientific committee of the CIMTEC 2012, the 4th international Conference on SMART materials, structures and systems.
 2009 1^{er} meeting of the RTP (Reseau Thématique Plurisciplinaire) bionique, Tours, Janvier 2009 (25 persons).
 2008 Main organiser of the 12th 'Invertebrate sounds and vibrations' in Tours, in October 2008 (100 persons).
 2006 Co-organiser with M. Théry of ISBE 2006 – the '11^{ème} Conference in Behavioral Ecology' in Tours (F) (**ca. 1100 persons**).
 2005 Organiser of the Jacques Monod Conference 'The chemo-physical Ecology of organisms' in Roscoff (F) (ca. 80 persons).
 2002 Scientific organiser of 'Journées de l'IFB' à Tours.
 2002 Co-Organiser of the 8th European Workshop on Insect Parasitoids in Tours (F) (ca. 150-250 persons).
 2002 co-Organiser of the workshop Physical ecology of light' of the consortium ACI 'Ecologie physique des organismes' in Roscoff (ca. 20 persons).
 1997 Organiser of the symposium 'Physical sensory ecology' in the VI European Meeting on Insect Parasitoids in Valence (E).
 1996 Organiser of the symposium 'Behavioral aspects in population dynamics' in the XX Intl Congress of Entomology in Florence (I).

Society membership

Sfé: Société Française d'écologie	1 st lifetime member of the society!
SICB : Society for Integrative and Comparative Biology	Lifetime member (10 years install.)
ESA: Ecological Society of America	Member

Formerly member of:

BES: British Ecological Society
 RES: Royal Entomological Society
 Bernoulli Society for mathematical Statistics and probability
 ANS: American Society of Naturalists

Institutional role - International

- 2015-2016 Consultant for WHO (Geneva, CH), for a worldwide analysis of educational materials on vector insects and their diseases. [see publications for a summary of the report]
- 2015 Expert reviewer for Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services (IPBES, UN body similar to IPCC) *Thematic assessment of pollinators, pollination and food production*. Draft 1, all chapters. 600 pp. I have been asked to be referee for the second round on the basis of the feedback provided.
- 2010-2013 Member of the Interdisciplinary Adjudication Committee of the Canada Research Chair program. I was one of the only two foreigners in the most important commission of the program. I covered the fields of ecology, environment and often broader ones such as geology & natural resources (plenty of it in Canada...), as we were only some 15 members for all sciences incl. Human and economic sciences. This program is internationally acclaimed and invests \$300 million per year to attract and retain some of the world's most accomplished and promising minds.
- 2010-today Member of the international Jury of the biannual Bionic Award of the VDI, the German Engineers Association, <http://www.vdi.eu/index.php?id=42822>
- 2009-today Member of the governing board '*BIOKON-the international biomimetics association*', the largest Intl. consortium on biomimetics, based in Berlin. The board is made of 7 persons, 3 being non-German.
- 2008-2015 Member of the Scientific board of '*Biomimetik-Netzwerk*', the consortium for biomimetics in southern Germany.
- 2005-2010 Founder of the EU-project on biomimetics (FET-IST) CILIA⁸, following up the successful project CICADA. This is one of the very few biomimetics project of the 6th Framework.
- 2002-2005 **Coordinator of the EU-wide biomimetics project (FET-IST) CICADA** in biomimetics. Truly transdisciplinary and interdisciplinary, this project aimed at producing an air flow sensing MEMS (Micro-electronical-mechanical system) inspired from the extraordinarily sensitive hairs of crickets. Sensory ecology merged with material science and nanotechnology.
- 2003 – 2005 French representative in the European doctorate school 'Insect Biotechnology', led by F. Pennacchio (I).

Institutional role - National (from 2000 onwards)

- 2015- 2016 Representative of the CNRS (INEE) in the Public-private consortium on biocontrol set-up by INRA.
- 2012-2015 Representative of the CNRS (INEE) in the foresight group (groupe prospective) of the ALENVI network of research organisation on the Sciences of the Environment.
- 2011 Member of the scientific committee of the ANR SV7
- 2008-2011 Nominated by CPU (the overall consortium of *all* French Universities) to sit on the Governing board (CA) of the French foundation for biodiversity research (FRB).
- 2008-2010 Leader of the French CNRS Network on bionics (Réseau Thématique Pluridisciplinaire CNRS -RTP Bionique INEE et ST2I).
- 2008 Nominated as expert on 'biodiversity-ecology' by the ministry of science and technology (DGRI) for the 'Stratégie Nationale de Recherche et Innovation, défi Sciences du Vivant (SdV)'.

⁸ <http://www.bionics-cilia.org/>

- 2005- 2007 Chair of the scientific commission de l’Institut Français de Biodiversité – IFB. I was a member of this commission from 2004 to 2006. In 2000- 2001, I did belong to the executive secretariat of the IFB.
- 2005-2006 President, and later vice-president of the scientific commission for the call ANR Biodiversité (in 2005 we gave away 11 mio. Euros, success rate 15%)
- 2000-2004 Nominated member of the comité national CNRS, section 30.
- 2000 Nominated member of the Commission de Spécialistes (**CSS**) de l’INRA ‘Biologie des Populations, écosystèmes’.

Institutional role – Local : Teaching and Directorship of a medium-sized research unit

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- 2013-2016 Chargé de mission by the University President and the CA in the perspective of an IDEX/ISTE project (Major multi-millions joint initiatives between universities) Orléans-Tours-Poitiers-La Rochelle-Limoges.
- 2012-2016 Elected to the **governing board** (CA: conseil administration) of the university, one of the only 2 full professors from the Science faculty. With monthly meetings, the body oversees all university affairs and elects the president.
- 2012-2013 **Chair a new Master II** program on behavioural ecology, evolution & biodiversity.
- 2000-2005 Chair of the integrative biology program within the doctorate school (**direction filière**). The main activity is in organising the allocations of Ph.D. grants to students and faculty.
- 2000- 2004 **Chair of the Master II** study program on population biology and evolution. Designing the overall program, following the teaching activity and selecting the students are among the main tasks, besides a myriad of others.
- 2001- 2008 **Director** of the Institut de Recherches sur la Biologie de l’Insecte IRBI -UMR CNRS 6035. This research unit, one of the largest devoted exclusively to insects in Western Europe, was then 60 people strong, with some 25 tenured scientists. During my two terms, I lead an aggressive program which triggered major changes, in particular (i) the publications in top journals, beyond entomology, such as *Nature*, *Science* or *Current Biology* (ii) increase our capacity by obtaining nearly each year tenured positions at the professorial and technician levels (iii) attract groups and individuals from France and abroad and (iv) substantially increase our budget. I was the driving force behind the hiring of Drs. AG Bagnères on termites biology (from Marseilles), Profs. C. Lazzari (From Argentina) in neuroethology and vector biology, M. Greenfield (From Kansas, USA) in ethology and behavioural ecology as well as Dr. Herniou (Imperial College, UK) on insect-viruses interaction through an ERC grant. These actions and decisions moved the IRBI from a good national laboratory to an international competitive research unit. At the end of my contract, in December 2007, the Ministry of Science and Higher education ranked the IRBI with a ‘A+’, the highest mark given to 15% of all the research units at the national level.

Collaborations leading to publications with senior scientists

'Second-order' collaborations, collaborations with junior scientists and former docs and post-docs are not listed

Prof. S. Alpern (London School of Economics, London, UK)	[mathematics, game theory]
Dr. M. Aluja (Institute for Ecology, Xalappa, Mexico)	[agroecology]
Prof. J. van Alphen (Leiden University, NL)	[behavioral ecology]
Prof. S. Anita (University Isai, Romania)	[mathematics, spatial control]
Dr. AG Bagnères (Tours University, F)	[chemical ecology]
Prof. F. Barth (Vienna University, Austria)	[neuroethology]
Prof. S. Behmer (Texas A&M, USA)	[insect-plant relationship]
Dr. C. Bernstein (Lyon University, F)	[behavioral ecology]
Dr. F. Bigler (Agroscope Reckenholz, CH)	[agroecology]
Prof. L. Chittka (University College London, UK)	[cognition, behaviour]
Prof. C. Cosner (Miami University, USA)	[applied mathematics]
Prof. J. Crassous (Rennes University, F)	[physics of granular materials]
Dr. JP Delbecque (Bordeaux University, F)	[endocrinology]
Prof. S. Gal (Haifa, IL)	[mathematics, game theory]
Dr. R. Godoy-Diana (ESPCI, Paris, F)	[fluid dynamics]
Prof. W.S.C. Gurney (Strathclyde University, Glasgow, UK)	[theoretical ecology]
Prof. B. Helmuth (University South Carolina USA)	[ecology of climate change]
Prof. G. Heimpel (University of Minnesota, USA)	[behavioural ecology]
Dr. N. Imbault (Tours University, F)	[plant biochemistry]
Prof. D. Irschick (Amherst University, USA)	[life history, biomechanics]
Prof. M. Kearney (Australia)	[energetic, climate change]
Prof. B. Koijmann (Amsterdam University, NL)	[energetics]
Prof. G. Krijnen (Twente University, NL)	[nano-microtechnology]
Prof. C. Lazzari (Tours University, F)	[neuroethology]
Prof. C. Liu (Northwestern University, USA)	[nano-microtechnology]
Prof. J. Mappes (University of Jyväskylä, Finland)	[evolutionary ecology]
Prof. E. McCauley (Calgary University, Canada)	[population dynamics]
Dr. T. Meiners (Freie Universiteat Berlin, D)	[chemical ecology]
Prof. JP Monge (Tours University, F)	[insect physiology]
Prof. J. van Loon (Wageningen University, NL)	[insect-plant relationship]
Prof. J. Miller (Montana University, Bozeman, USA)	[computational neurosciences]
Prof. W. Murdoch (UC Santa Barbara, USA)	[population dynamics]
Prof. R. Nisbet (UC Santa Barbara, USA)	[theoretical ecology]
Prof. E. Raphael (ESPCI, Paris, F)	[wave theory, theo. physics]
Prof. D. Robert (University Bristol, UK)	[sensory physiol., bio-nano-tech]
Prof. SJ. Simpson (University of Sydney, Australia)	[integrative physiology]
Dr. H. Sinoquet (INRA Clermont-Ferrand, F)	[agroecology]
Prof. M. Strand (Georgia University, Atlanta, USA)	[insect physiology]
Prof. J. Tautz (Würzburg University, D)	[sensory physiology]
Dr. M. Théry (MNHN Paris, F)	[sensory ecology]
Prof. P. Turchin (University of Connecticut, USA)	[population dynamics]
Prof. E. Warrant (Lund University, Sweden)	[sensory ecology]
Prof. A. Woods (Montana, USA)	[integrative physiology]
Prof. N. Zoroa (Murcia, Spain)	[mathematics]

Refereed publications

- [1] Casas J. (1988). Analysis of searching movements of a leafminer parasitoid in a structured environment. *Physiological Entomology* **13**: 373-390.
- [2] Casas J. (1989). Foraging behaviour of a leafminer parasitoid in the field. *Ecological Entomology* **14**: 257-265.
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- [11] Meyhöfer, R., Casas, J. & S. Dorn (1997). Vibration mediated interactions in a host-parasitoid system. *Proceedings of the Royal Society London B* **264**: 261-266
- [12] Meyhöfer, R., Casas, J. & S. Dorn (1997). Mechano- and chemoreceptors and their possible role in the host location behaviour of *Sympiesis sericeicornis* (Hymenoptera: Eulophidae). *Annals of the American Entomological Society of America*, **90**: 208-219.
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- [17] Rivero, A. & Casas, J. (1999). Rate of nutrient incorporation to egg production in a parasitic wasp. *Proceedings Royal Society London B*, **266** : 1169-1174.
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⁹ JBS Haldane prize 2002 for the best paper in *Functional Ecology* by a junior scientist D. Giron (British Ecological Society)

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¹¹ Elton Prize of the British Ecological Society (BES) in 2007 for the best paper published in *Journal of Animal Ecology* by a junior author, S. Pincebourde.

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In revision

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- [000] Zoroa, N., Lesigne E. & J. Casas (2016). Heterogeneity of risk of attack among hosts and the dynamics of infection: a biased urn analytical approach. **In revision in Journal of the royal Society Interface**.
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Submitted

- [000] Steinmann, T. & J. Casas (2016) The heterogeneity of cricket flow sensing hairs conveys the complex flow signature of predator attack
- [000] Muller D., Giron D., Desouhant E., Rey B, Casas J., Lefrique N. & B. Visser (2017). Metabolic costs for offspring when maternal nutrient investment is reduced.

¹² “Concept and Synthesis” section

Invited

- [000] Casas, J. & R. Reed (2018) The natural history of ommochromes. **Invited review** in *Annual Review of Entomology*.
- [000] Casas, J. (2016) Sensors in Insects: from Entomology to Fluid Mechanics. **Invited book chapter** in *Archimats: Architectured Materials in Nature and Engineering*. Yuri Estrin, Rémy Dendievel, Yves Bréchet and Peter Fratzl (eds). Springer Verlag.

Position papers

- Le Maho, Y. & J. Casas (2004) Pour que vive l'écologie scientifique. *La Recherche*, no. 375, <http://www.larecherche.fr/content/recherche/article?id=3430>
- Casas, J & S. J. Simpson (2010). Increasing demands and vanishing expertise in insect integrative biology. *Advances in Insect Physiology*, **38**, 1-4.
- Casas, J. (2011). Quelle course à l'excellence pour les Sciences en Biodiversité ? Regards de la Sfe, Société Française d'Ecologie, <http://www.sfecologie.org/regards/2011/04/04/r15-j-casas/>
- Dangles, O. & J. Casas (2012) The bee and the turtle: a fable from Yashuni. *Frontiers in Ecology and Environment*, **10**, 446-447. [cover page]. <http://www.esa.org/pdfs/TrailsandTribesProof3.pdf>
- Casas, J. (2012) Le biomimétisme: convergences de disciplines. In B. Pouderon & J. Casas (eds). *Variations, évolutions, métamorphoses*. Actes des journées IUF 2012. Presses Universitaires St-Etienne. Pp. 223-232.
- Dangles, O., Casas, J. & J.F. Sylvain (2015) Pour une alphabétisation écologique. <http://www.lesechos.fr/idees-debats/cercle/cercle-120657-pour-une-alphabetisation-ecologique-1080598.php>
- Pincebourde, S. & J. Casas (2016) Adaptation des insectes au changement climatique. 4 pp. Rapport de l'Académie des Sciences au Président en prévision de la COP21.

Book chapters

- [B1] Casas, J. (2000). Host searching and host selection in the wild. In: M. Hochberg & T. Ives (Eds). **Parasitoids Population Biology**. Princeton University Press.
- [B2] Casas, J. & I. Djemai (2002) Plant canopy architecture and multitrophic interactions. In: T. Tscharnke & B. Hawkins (Eds). **Multitrophic interactions**. Cambridge University Press.
- [B3] Casas, J. & C. Magal (2005) Vibratory communication in host-parasitoid systems: from plant biomechanics to behavioral ecology, in **Insects Sounds and Communication** (Eds) S. Drosopoulos & M. Claridge. CRC Press.
- [B4] Heimpel, G. & J. Casas (2007) Parasitoid foraging and oviposition behaviour in the field, in **Behavioral Ecology of insect parasitoids**, E. Wajnberg, C. Bernstein & J. van Alphen (Eds) . Blackwell, London.
- [B5] Strand, M. & J. Casas (2007) Parasitoid and Host Nutritional Physiology in Behavioural Ecology, in **Behavioral Ecology of insect parasitoids**, E. Wajnberg, C. Bernstein & J. van Alphen (Eds) . Blackwell, London.
- [B6] Théry, M., Defrize, J., Insausti, T. & J. Casas (2011). The multiple disguises of spiders, in **Camouflage**. S. Merilaita & M. Stevens (Eds). Cambridge University Press.

- [B7] Casas, J., C. Liu & G. Krijnen (2012). Biomimetic flow sensors. **Encyclopedia of Nanotechnology**, Bhushan (Ed). Springer Verlag.
- [B8] Steinmann, T. & J. Casas (2014). Laser-based methods for analyzing fluid flow sensing by organisms. In **Flow sensing in air and water**, pp. 31-62. H. Bleckmann, J. Mogdans & S.L. Coombes. Springer Verlag.
- [B9] Krijnen,G.J.M., Droogendijk, H., Dagamesh, A.M.K., Jaganatharaja, R.K. & J. Casas (2014). Crickets as bio-Inspiration for MEMS-Based Flow-sensing. In **Flow sensing in air and water**, pp. 459-488. H. Bleckmann, J. Mogdans & S.L. Coombes. Springer Verlag.
- [B10] Voise, J. & J. Casas (2014). Use of water wave propagation for echolocation in whirligig beetles: an unsubstantiated conjecture. In **Vibrational communication**, R. Cocroft, Wessel, A. & M. Gogala (eds). Pp. 303-317. Springer Verlag.
- [B11] Krijnen,G.J.M., Droogendijk, H., Steinmann, T. Dagamesh, A.M.K., Jaganatharaja, R.K. & J. Casas (2014). Hair based flow-sensing inspired by the cricket cercal system. In **Handbook of Biomimetics and Bioinspiration, Volume 2**, Jabbari, E. et al. (eds). Pp. 861-887. World Scientific Press.

Books

As co-editor in chief of **Advances in Insect Physiology**, I distinguish here between the usual edited volumes (1 to 2 per year, totalling at the end of my stint in 2015 some 10 volumes) and those volumes for which I conceived the topic, invited the authors, commented and handled each chapter etc. as for any non-serial edited book. These four books are:

- J. Casas & S.J. Simpson (eds). **Insect Mechanics and Control**. Academic Press, San Diego. 2008. 396 pp.
- J. Casas & S.J. Simpson (eds). **Insect Integument & Colors**. Academic Press, San Diego. 2010. 364 pp.
- J. Casas (ed). **Spider Physiology and Behaviour: Physiology**. Academic Press, San Diego. December 2011. 223 pp.
- J. Casas (ed). **Spider Physiology and Behaviour: Behaviour**. Academic Press, San Diego. December 2011. 271 pp.

B. Pouderon & J. Casas (eds). **2012. Variations, évolutions, métamorphoses**. Actes des journées IUF 2012. Presses Universitaires St-Etienne. 252 pages

Proceedings

Krijnen, G.J.M. and Droogendijk, H. and Dagamseh, A.M.K. and Jaganatharaja, R.K. and Casas, J. (2013) Imitating the cricket cercal system: The beauty of the beast with a twist of the engineer. *Advances in Science and Technology*, 84, 19-28.

Invited talks

1998

- ¹³Engineering Foundation Symposium on 'First international symposium on mechanics of plants, animals and their environments'. California (USA) 'Leaf vibration and air flow in a prey-predator system'.
- Symposium international 'Ecologie des populations d'insectes', Paris (F).
- Lyon, CNRS SDV - NL SLW Workshop on host-parasitoid Interactions (F) .
- 4th Warming lectures in Evolutionary Ecology and Biodiversity¹⁴, University of Minas Gerais at Belo Horizonte (Brésil). 'Behavioral Ecology : the use of vibrations in a host-parasitoid relationship'.

1999

- Universität Freiburg, Abt. Botanik (D). 'Leaves as transmission channel in vibratory communications in insects: a case study of a prey-predator system'.
- Plenary talk , 'Ecologie des relations comportementales des relations hôte-parasitoïde : les points de vues de la victime et du bourreau' XXXI Colloque SFECA 'Ecologie comportementale' Nice 18-20 Mars 1999
- Conférence plénière, Colloque AFEEE99, Premier congrès de l'Association Francophone pour l'Ethologie, l'Ecologie et l'Evolution, Rennes 31 Aout-3 septembre 'comportement et dynamique de populations d'insectes: une approche probabiliste'.
- XII international Entomophagous Insects Workshop, september 26-30, Pacific grove, California USA 'Eggload dynamics and oviposition rate in the field'

2000

- Conférence plénière, XIII Colloque de physiologie de l'insecte, 21-23 Mai, Versailles.
- Keynote lecture: 'Plant biomechanics in plant-animal interactions' 3rd International Congress on Plant Biomechanics, D.

2001

- Society for Experimental Biology, 2-6 Avril, Canterbury UK. 'Wave propagation in plant structures and insect communication'

2002

- 3ème Canopy Conference, Brisbane Australia 'An insect view of canopy geometry'. June.

2004

- 7th International Congress of Neuroethology, Odensee Danemark, 12 August, 'Air flow sensing: from physical ecology in the field to nanotech implementation', J. Casas & the CICADA consortium
- XXII International Congress of Entomology, 15 August 2004, Brisbane Australia, 'Insect views on plant structural complexities', J. Casas, M. Aluja & C. Godin
- XXII International Congress of Entomology, 16 August 2004, Brisbane Australia, 'Physiologically structured host-parasitoid interactions: consolidating the physiological basis of increasingly complex models', J. Casas & D. Giron
- XXII International Congress of Entomology, 18 August 2004, Brisbane Australia, 'Air flow sensing: from physical ecology in the field to nanotech implementation', J. Casas & the CICADA consortium
- Insect and sensors, first international workshop , 26 August 2004, Brisbane Australia, 'Air flow MEMS sensors: can technology match up with crickets?', J. Casas & the CICADA consortium

2005

- Meeting of the German Entomological Society, Dresden (D), ' Making the best of mother's choice'. Tucson, Insect Science Center (USA) 'Physical Ecology of multitrophic interactions'.

- 9th European meeting on insect parasitoids, Cardiff (UK) 'Nutrient acquisition and allocation strategies'

2006

- International conference on the Behavioral Ecology of Insect Parasitoids, Nice.

2007

- 'Arthropod flow sensing: when MEMS design learns from physical ecology' Society of Experimental Biology, symposium on biomechanics, Glasgow, 2007.

¹³ Symposia organised by the Engineering Foundation are very much like the Gordon conferences

¹⁴ Speakers: N. Eldredge (USA), J. Thompson (USA), A. Templeton (USA), W. Benson (Brésil), J. Casas (F).

'Géométrie des courses-poursuites dans le règne animal', Groupe de travail math-bio, INRIA-UNICE-INRA Nice, 2007.

Cité des Sciences, Paris, Mai, 'Insectes : qui sont-ils ?'

1 3th international congress of the German Society of Engineers (VDI) Keynote final lecture (between 1200-1600 persons) 'MEMS design learns from insect physical ecology', October 2007, Baden-Baden

2008

3rd International conference on smart materials, structures and systems. Sicily (I), June, 'Air flow sensing: when MEMS design learns from insect physical ecology'.

Conference of the Parties (COP 9) of the Convention on Biological Diversity, high-ranking scientific conference bringing input from the scientific community into COP 9, Bonn (D) 14 May 1998, 'Bionics : from and for Nature'

2009

1st International conference on artifical and natural mechanosensing systems. Dresden (D), Octobre, 'The physical ecology of fluid flow sensing'.

2011

Linking Mechanics, Robotics, and Neuroscience: Novel Insights from Novel Systems, Annual meeting AAAS Washington 17 February

Flow sensing in Air and Water, An Intl. Conference in Bonn, July

2012

Search games and Rendez-vous. An intl. Mathematical Workshop at Lorenz Center, Leiden (May).

XXIV International Congress of Entomology ICE 2012, Korea (August). Symposium Integrative nutrition: from physiology to ecology and beyond.

Recherches Bioinspirées. Une opportunité pour la transition écologique? Paris 10 décembre 2012. Sous l'égide de la Haute Fonctionnaire aux énergies renouvelable D. Dron, je fus l'un des grands témoins et ai donné la conférence avec 2 autres collègues 'Biomimétisme inspiré des plantes et des insectes :de la science des matériaux aux micro-senseurs'.

2013

1. **Annual Meeting for the Society of Integrative and Comparative Biology, San Francisco (USA)**, January. Symposium' When Predators Attack: Sensing and Motion in Predator-Prey Interactions'.
2. **Janelia Farm Research Campus, Howard Hughes Medical Institute (USA)**, Dynamics of Prey Capture and Escape, March.
3. **Collège de France**, Chaire d'innovation technologique (Y. Brechet). Workshop du 15 Mars et conference du 14-15 octobre. 'Capteurs de flux miniatures inspirés des insectes' et 'from Entomology to biomimetic flow sensors'.

2014

1. **Physics dept. Seminar, Georgia Tech, Altanta (USA)**: flow sensing in insects: from physical ecology to MEMS design. January 2014.
2. **SOS: sillages etc. ESPCI**.
3. **World Congress in Biomechanics, Boston (USA)**.
4. project presentation AGROECO. Rendez-vous de la Recherche en Région Centre, 24/09/2014, Orléans.

2015

1. Society for Experimental Biology, SEB meeting: **keynote** lecture in the section *Mechanics and biological function of the Arthropod exoskeleton*, Prague,July.
2. CARNOT/CEA/LETI, Octobre 2015.

3. les Rendez-vous du biomimétisme, CEA Haut commissaire énergie atomique: novembre.
4. Exposé Chaire Paris Tech ESPCI, Novembre 2015.
5. Recherches inspirées de la Biodiversité, Paris 16 & 17/12, MNHN, CEESBIOS & Minisitère EDDE

2016

ICE, international congress of Entomology, invited speaker in the session of C. Loudon & M Alleyne. Session: *Bioinspiration Crossing Disciplinary Borders*. Florida September 2016.

Invited participation to high-profile brainstorming meetings

2009 ESF-NSF Joint Workshop on **Biologically inspired sensors and actuators**, Taormina Sicily. ESF financial support.

2011 Workshop jointly sponsored by the European Science Foundation (ESF), the US National Science Foundation (NSF), and Turkish Science and Technology Council (TUBITAK) entitled **Synergy and Learning from Nature**. The workshop is also supported by Japan Science and Technology Agency (JST) and National Science Council of Taiwan (NSC). October 20-22 in Istanbul, Turkey. ESF financial support. (not attended).

IN THE MEDIA

The work on spider crypsis, started with M. Théry, had a worldwide press, radio, internet and television coverage, see le Figaro 30/1/2002, Dallas Morning News 14/1/2002, La Recherche 3/2002, USA 'National Public Radio', transmitted over 135 channels, Web sites (ABC Australia, <http://www.abc.net.au/science/news/stories/s456197.htm>), Discover channel. The work on the bee dance with J. Tautz got coverage in different media, Frankfurt Allgemeine, Science et Avenir, Nature on its web site 'science update', 25/10/2001, 'Good vibrations', New Scientist (8/12/2001, p.18) and Science et vie Junior (February 2002). Interview Radio RCF St-Martin (21/3/2001). Our work on the leafminer invasion was the topic of the 20:00 news program on the TV station in the country (TF1, A2 dans les headlines) in 2003 (Novembre). On the recommendation of an EU program officer to enhance the visibility of the IST-FET program in the country, I worked with a journalist to produce a full page in Le Monde about bionics and the CICADA project. Our work on the nutrient and energy budget of a parasitic wasp was refereed several times. The fact that fear of predation (paper in Current Biology) can be passed on to naïve crickets was the highlight of several media, from *Nature à Science et Vie* (February 2006), a Chili magazin, Geographic magazine (February 2006) and others. TV programs, web sites, radios made several coverages of our work in the project CILIA on cricket-spider interactions and biomimetic hairs (Deutsche Welle Novembre 2005, and other channels¹⁵), (BBC en 2005)¹⁶.

¹⁵ <http://www.hirado.hu/cikk.php?id=68732>

¹⁶ http://www.futura-sciences.com/news-quand-grillons-inspirent-scientifiques_7665.php

The activity increased from 2003 onwards and I did not keep track of all this (some tracking is to be found on our web site). I am not convinced this should weigh as much as it tends to do these days and regard that as mere derived products of a lively scientific activity. In particular, I am unclear why having 5 minutes prime time on the National TV station should be more important than going to kids classes to show good looking insects and explain to them why we need these organism on the planet. We just do not have an appropriate statistics, similar to a h-index, of how to rank these public-related activities, even though I fully understand the need of employers to account every activity of their employees: let us administrators do that then.

A major work I did in the recent year which is worth mentioning is a series of 3 films targeted to an educated public (up to graduate students), with a well known scientific film makers around the theme 'Insects: the physics of smallness' [insects: la physique du petit]. I have done two other films or participation to longer films about the cricket hairs as templates for biomimetic micro-sensors, see our web site.

The film which highlight best my approach is called 'Insects: small scale physics', to see at: :
<http://videotheque.cnrs.fr/doc=4075> (both in French and English).