

2017
ICUP
BIRMINGHAM UK

**9th INTERNATIONAL
CONFERENCE
ON URBAN PESTS
9-12 JULY**



PRELIMINARY PROGRAMME

PRELIMINARY PROGRAMME

AT A GLANCE

09 July, Sunday	
16.00-18.00	Registration
18.00-20.00	Welcome Reception
10 July, Monday	
09.00-14.55	<i>Plenary Session</i>
10.30-11.05 / 14.55-15.25	Coffee/Tea Break
12.15-13.45	Lunch
15.25-16.25	Parallel sessions - <i>Bedbugs. Rodents. Invasive Species</i>
11 July, Tuesday	
09.00-17.00	<i>Workshop for Pest Management Professionals</i>
09.00-10.20	Parallel sessions - <i>Bedbugs. Rodents. Medical Entomology</i>
10.20-11.00	Coffee/Tea Break
11.00-12.00	Parallel sessions - <i>Bedbugs. Rodents. Medical Entomology (Mosquitoes)</i>
12.00-13.30	Lunch
13.30-14.30	Parallel sessions - <i>Resistance (Bedbugs). Vertebrates. Chemical Control (Mosquitoes)</i>
14.30-17.00	<i>Poster Session</i>
15.00-15.30	Coffee/Tea Break
19.00-24.00	Conference Dinner - Botanical Gardens
12 July, Wednesday	
09.00-10.20	Parallel sessions - <i>Chemical Control (General). Structural & Museum Pests. Resistance / Non-chemical control</i>
10.20-11.00	Coffee/Tea Break
11.00-12.00	Parallel sessions - <i>Chemical Control (Ants). Termites. Non-chemical control</i>
12.00-13.30	Lunch
13.30-15.00	<i>Bedbug Workshop: discussions</i>
15.00-15.30	Coffee/Tea Break
15.30-16.00	<i>Bedbug Workshop: short statements of each discussion</i>
16.00-16.30	Closing Ceremony



MAIN SPONSORS



PRELIMINARY PROGRAMME

Detailed Program SUNDAY 9 July, 2017 Aston University / Conference Aston, Birmingham, B4 7ET, United Kingdom			
16.00 – 18.00	REGISTRATION - Conference Aston Hotel		
17.00 – 17.30	Instruction of chairpersons - William H. Robinson		
18.00 – 20.00	WELCOME RECEPTION - Conference Aston Hotel		
MONDAY 10 July, 2017 Aston University, Main Building			
08.40 – 08.50	Instruction of chairpersons		
PLENARY SESSION <i>Matthew Davies</i> Great Hall			
09.00 – 09.20	Opening Words - <i>Matthew Davies and William H. Robinson</i>		
09.20 – 09.55	Indoor arthropod community and distributions in US homes <i>Misha Leong, Matthew A. Bertone, Keith M. Bayless, Robert R. Dunn, and Michelle D. Trautwein</i>		
09.55 – 10.30	Review of climate change impacts on urban pests - <i>Partho Dhang</i>		
10.30 – 11.05	Coffee/Tea Break - Litchfield Lounge		
11.05 – 11.40	Mosquito surveillance in the UK - <i>Alex Vaux and Joylon Medlock</i>		
11.40 – 12.15	Population expansion and high gene flow in <i>Aedes fluviatilis</i> (Diptera: Culicidae) in urban areas <i>Laura Cristina Multini, André Barretto Bruno Wilke, Lincoln Suesdek and Mauro Toledo Marrelli</i>		
12.15 – 13.45	Lunch - Litchfield Lounge		
13.45 – 14.20	Increase in environmental light conditions boost massive flights of aquatic insects - <i>Kimio Hirabayashi and Hikari Zukeran</i>		
14.20 – 14.55	Houseflies (Diptera: Muscidae), regulation, and pest status in the UK - <i>Clive Boase</i>		
14.55 – 15.25	Coffee/Tea Break - Litchfield Lounge		
	Session 1a BEDBUGS	Session 1b RODENTS	Session 1c INVASIVE SPECIES
15.25 – 15.45	1. Advances in the biology and management of modern bed bugs <i>Stephen L. Doggett, Dini Miller and Chow-Yang Lee</i>	1. The UK rodenticide stewardship regime – a model for anticoagulant risk mitigation? <i>Alan Buckle, Colin Prescott, Matthew Davies, Rupert Broome</i>	1. Distribution, control measures and strategies of the first occurrence of <i>Lasius neglectus</i> (Hymenoptera: Formicidae) in Zurich, Switzerland <i>Isabelle Landau, Marcus E. Schmidt, Gabi Müller</i>
15.45 – 16.05	2. Evaluation of whole home heat treatment efficacy for bed bug (<i>Cimex lectularius</i>) (Hemiptera: Cimicidae) control in apartment units containing different volumes of clutter <i>Dini M. Miller, Molly Stedfast, Katlyn Amos and Ian Sandum</i>	2. Systematic surveys of commensal rodents in English dwellings <i>Mark Lambert</i>	2. Occurrence and experiences with the invasive insects <i>Halyomorpha halys</i> (Hemiptera: Pentatomidae), <i>Leptoglossus occidentalis</i> (Hemiptera: Coreidae), <i>Harmonia axyridis</i> (Coleoptera: Coccinellidae) and <i>Cydalima perspectalis</i> (Lepidoptera: Pyralidae) in the region of Zurich, Switzerland <i>Marcus E. Schmidt, Gabi Mueller and Isabelle Landau</i>
16.05 – 16.25	3. Bed bugs, hotels, and travelers: attitudes and implications <i>Michael F. Potter, Jerrod M. Penn and Wuyang Hu</i>	3. Rodent control: back to basics to understand the future <i>Andy Brigham, Rob Shand</i>	3. Global invasion history of the termite <i>Reticulitermes flavipes</i> (Isoptera: Rhinotermitidae) as revealed by three classes of molecular markers <i>Edward L. Vargo, Elfie Perdereau, Franck Dedeine, Anne-Geneviève Bagnères</i>

TUESDAY 11 July, 2017 Aston University, Main Building			
08.40 – 08.50	Instruction of chairpersons		
	Session 2a BEDBUGS	Session 2b RODENTS	Session 2c MEDICAL ENTOMOLOGY
09.00 – 09.20	4. An overview of bed bug treatment in the US: using science to create progressive treatment protocols (Heteroptera: Cimicidae) <i>Jeffrey White</i>	4. Controlling house mice in the food industry <i>John Simmons</i>	1. Antibiotic resistant bacteria in rodents and insects <i>Jessica C. Smith, Ana M. Ferreira and Sara A. Burt</i>
09.20 – 09.40	5. Bed bugs and bats in Europe <i>Ondřej Balvín</i>	5. Potential welfare implications of unregulated spring traps for <i>Rattus norvegicus</i> (Rodentia: Muridae), <i>Mus musculus</i> (Rodentia: Muridae) and <i>Talpa europaea</i> (Insectivora: Talpidae) <i>Sandra E. Baker, David W. Macdonald DW and Stephen A. Ellwood</i>	2. Microbiological analysis of non-biting flies collected from hospitals: novel pathogens and new vectors in the clinical environment <i>Matthew P. Davies, Moray Anderson and Anthony C. Hilton</i>
09.40 – 10.00	6. Vision and color preferences of bed bugs (Hemiptera: Cimicidae) <i>Corraine A. McNeill and Seth A. McNeill</i>	6. Monitoring of brown rats on the territory of megalopolis <i>Valentin Andreevich Rylnikov and Angelina Vyacheslavovna Bogacheva</i>	3. The factors driven <i>Paederus</i> outbreak in human settings: climatic factor or human intervention? <i>Kok-Boon Neoh and Lee-Jin Bong</i>
10.00 – 10.20	7. Preservation techniques affecting DNA extraction from <i>Cimex lectularius</i> L. (Hemiptera: Cimicidae) <i>Sanjay Basnet, Ralph B. Narain and Shripat T. Kamble</i>	7. Developing methods for the detection and characterisation of ultra-sonic calls from the house mouse <i>Charlotte Matthey and Andy Brigham</i>	4. The emergence of <i>Dermanyssus gallinae</i> as an arthropod pest in urban context and the “one health” approach <i>Olivier Sparagano, Robert Finn, Monique Mul, Annunziata Giangaspero, Maria Assunta Cafiero, Natalie Willingham, Kirstie Lyons and David George</i>
10.20 – 11.00	Coffee/Tea Break - Litchfield Lounge		
	Session 3a BEDBUGS	Session 3b RODENTS	Session 3c MEDICAL ENTOMOLOGY (MOSQUITOES)
11.00 – 11.20	8. Chemical ecology of bed bug (Heteroptera: Cimicidae) in their microhabitats <i>Dong-Hwan Choe</i>	8. Field evaluation of two single feeding anticoagulant rodenticides against <i>Mus domesticus</i> in a confined swine facility <i>ElRay M. Roper and Grzegorz Buczkowski</i>	5. Surveillance and control of <i>Aedes albopictus</i> in epidemiological risk areas of Valencia (Spain) <i>Bueno, R. and Quero, F.</i>
11.20 – 11.40	9. Evaluation and implementation of a minimal monitoring system for <i>Cimex lectularius</i> (Hemiptera: Cimicidae) detection in low-income high-rise housing <i>Karen Vail, and Jennifer Chandler</i>	9. Alternatives to anticoagulants: alphachloralose <i>Andy Brigham</i>	6. Mosquitoes (Diptera: Culicidae) as <i>Dirofilaria</i> vectors in Tula region, Russia <i>Anna Bogacheva, Yuliya Lopatina and Ludmila Ganushkina</i>
11.40 – 12.00	10. Using monitors to detect and assist in the treatment of the common bed bug (Heteroptera: Cimicidae) <i>Jeffrey White</i>	10. Development of an innovative cholecalciferol rodenticide bait <i>Sharon Hughes</i>	7. Selection of adult <i>Aedes aegypti</i> (Diptera: Culicidae) towards larvicide-treated oviposition sites <i>Lee-Jin Bong, Kok-Boon Neoh, Chin-Gi Huang and Wu-Chun Tu</i>
12.00 – 13.30	Lunch - Conference Aston Hotel Restaurant		
	Session 4a RESISTANCE (BEDBUGS)	Session 4b VERTEBRATE PESTS	Session 4c CHEMICAL CONTROL (MOSQUITOES)
13.30 – 13.50	1. Determination of widespread resistance to pyrethroids and emergent reduced susceptibility to neonicotinoids in the common bed bug and tropical bed bug (Hemiptera: Cimicidae) in Australia <i>David G. Lilly, Kai Dang, Stephen L. Doggett & Cameron E. Webb</i>	1. <i>Rhipicephalus sanguineus</i> (brown dog tick) importation into the UK: surveillance, risk, public health awareness and response <i>Kayleigh M Hansford, L. Paul Phipps, Benjamin Cull, Maaik E. Pietzsch and Jolyon M Medlock</i>	1. Evaluation of mosquito barrier applications using lambda-cyhalothrin and pyriproxyfen in the United States <i>N.T. Gallagher, E. Roper, C. Keefer, M. Coffelt and C.W. Scherer</i>
13.50 – 14.10	2. Pyrethroid resistance in <i>Cimex lectularius</i> (Hemiptera: Cimicidae) in Germany <i>Arlette Vander Pan, Jürgen Krücken, Erik Schmolz, Georg von Samson-Himmelstjerna and Carola Kuhn</i>	2. Unsuspecting immigrant or ecological threat – a long-term field study on the introduced raccoon (<i>Procyon lotor</i> , Carnivora: Procyonidae) in Germany <i>Berit A. Michler, Frank-Uwe Michler, Siegfried Rieger, Mechthild Roth</i>	2. Laboratory study of persistence and residual activity of deltamethrin, permethrin and melathion against <i>Anopheles stephensi</i> and <i>Aedes aegypti</i> in Pakistan <i>Farkhanda Manzoor</i>
14.10 – 14.30	3. Tropical bed bug infestation dynamics in Malaysia: evaluation of insecticide resistance level and susceptibility on pyrethroid and carbamate insecticides (Hemiptera: Cimicidae) <i>Abdul Hafiz Ab Majid and Zulaikha Zahran</i>	3. Reducing urban pigeon pests humanely <i>Marco Pellizzari and David Loughlin</i>	3. Efficacy of a polydimethylsiloxane formulation against urban mosquito pests in the UK <i>John Anthony Lloyd and Charles Phillips</i>
14.30 – 17.00	POSTER SESSION		
15.00 – 15.30	Coffee/Tea Break - Litchfield Lounge		

WEDNESDAY 12 July, 2017 Aston University, Main Building

08.40 – 08.50	Instruction of chairpersons		
	Session 5a CHEMICAL CONTROL (GENERAL)	Session 5b STRUCTURAL & MUSEUM PESTS	Session 5c RESISTANCE / NON-CHEMICAL CONTROL
09.00 – 09.20	4. Flavesone: a novel insecticide for the control of urban pests <i>Peter Miller and Bryce Peters</i>	1. What is eating your collection? The development of a web-based insect pest recording database <i>Jane Thompson Webb and David Pinniger</i>	4. Theory and practice of insecticide resistance management: a comparison of crop protection and public health vector control <i>Mark Hoppé</i>
09.20 – 09.40	5. IGRs for cat flea (Siphonaptera: Pulicidae) control revisited <i>Michael K. Rust and W. Lance H. Hemsarath</i>	2. Success and failure in biological pest control with the larval parasitoid <i>Lariophagus distinguendus</i> in museums and historic buildings <i>Pascal Querner</i>	5. Resistance risk assessment in field-collected strains of the German cockroach, <i>Blattella germanica</i> (Dictyoptera: Blattellidae) to fipronil and indoxacarb baits <i>Ling-Hui Ang and Chow-Yang Lee</i>
09.40 – 10.00	6. Evaluating a new concept in cockroach baiting <i>Steven Broadbent</i>	3. The practical use of braconid wasps against the common furniture beetle (Coleoptera: Anobiidae) <i>Stephan Biebl</i>	6. Determining the source of house flies (<i>Musca domestica</i>) using stable isotope analysis <i>Katharina Heinrich, Robert J. Weaver and Howard A. Bell</i>
10.00 – 10.20	7. Anticoagulant rodenticide bait efficacy with reduced active substance concentrations <i>Erik Schmolz, Juliane Fischer, Anton Friesen</i>	4. <i>Lyctus</i> (Coleoptera: Bostrychidae) – a never ending story <i>Reiner Pospischi</i>	7. Comparison of collection number of <i>Limnophyes natalensis</i> (Diptera: Chironomidae) by light-trap methods in a food factory <i>Goro Kimura, Kimio Hirabayashi, and Tsutomu Tanikawa</i>
10.20 – 11.00	Coffee/Tea Break - Litchfield Lounge		
	Session 6a CHEMICAL CONTROL (ANTS)	Session 6b TERMITES	Session 6c NON –CHEMICAL CONTROL
11.00 – 11.20	8. The use of biodegradable hydrogel to deliver aqueous bait to manage an invasive ant pest in residential settings <i>Jia-Wei Tay, Ashok Mulchandani, Mark Hoddle and Dong-Hwan Choe</i>	5. <i>Cryptotermes brevis</i> control methodology on a historic baroque church <i>Eder Flávio Rede</i>	8. The role of L.E.D.s in the design of ultra-violet light traps for house fly monitoring and control <i>Matt Green</i>
11.20 – 11.40	9. Role of ant larvae in the digestion of gel and granular baits in management of <i>Camponotus modoc</i> and <i>Tapinoma sessile</i> (Hymenoptera: Formicidae) <i>Laurel D. Hansen.</i>	6. A multi-region study to assess the efficacy of chlorantraniliprole as a post-construction treatment to control <i>Reticulitermes flavipes</i> (Isoptera: Rhinotermitidae) in structures <i>Chris Keefer, Susan C. Jones, Edward L. Vargo, Paul Labadie, Roger E. Gold, Clay W. Scherer and Nicola T. Gallagher</i>	9. Parasitoids for classical biological control of <i>Tineola bisselliella</i> (Lepidoptera: Tineidae) <i>Rudy Plarre, Henrik Hering, and Martina Matzke</i>
11.40 – 12.00	10. Development and evaluation of testing methods for ant repellents <i>Anne Krüger, Sara Knobelspieß and Erik Schmolz</i>	7. Inter- and intraspecific colony interactions in <i>Reticulitermes</i> (Isoptera: Rhinotermitidae) <i>Mark Janowiecki and Edward Vargo</i>	10. Physical methods to combat mass occurrences of <i>Cylindroiulus caeruleocinctus</i> (Diplopoda, Julidae) <i>Klaus Zimmermann</i>
12.00 – 13.30	Lunch - Litchfield Lounge		
13.30 – 15.00	BEDBUGS WORKSHOP	Discussion session Breakout groups led by Stephen Doggett, Dini Miller and Chow-Yang Lee	
15.00 - 15.30	Coffee/Tea Break - Litchfield Lounge		
15.30 – 16.00	BEDBUGS WORKSHOP	Short statements of each discussion Statements given by Stephen Doggett, Dini Miller and Chow-Yang Lee	
16.00 – 16.30	CLOSING CEREMONY - Great Hall		

WORKSHOP FOR PEST MANAGEMENT PROFESSIONALS**TUESDAY 11 July, 2017**

08.40 – 08.50	Instruction of chairpersons
09.00 – 09.30	1. Alternatives to anticoagulants: alphachloralose - <i>Andy Brigham</i>
09.30 – 10.00	2. Development of an innovative cholecalciferol rodenticide bait - <i>Sharon Hughes</i>
10.00 – 10.30	3. Anticoagulant rodenticide bait efficacy with reduced active substance concentrations <i>Erik Schmolz, Juliane Fischer, Anton Friesen</i>
10.30 – 11.00	Coffee/Tea Break - Litchfield Lounge
11.00 – 11.30	4. Controlling house mice in the food industry - <i>John Simmons</i>
11.30 – 12.00	5. Reducing urban pigeon pests humanely - <i>Marco Pellizzari and David Loughlin</i>
12.00 – 13.30	Lunch Conference - Aston Hotel Restaurant
13.30 – 14.00	6. An overview of bed bug treatment in the US: using science to create progressive treatment protocols (Heteroptera: Cimicidae) <i>Jeffrey White</i>
14.00 – 14.30	7. Evaluation and implementation of a minimal monitoring system for <i>Cimex lectularius</i> (Hemiptera: Cimicidae) detection in low-income high-rise housing – <i>Karen Vail, and Jennifer Chandler</i>
14.30 – 15.00	8. Evaluation of whole home heat treatment efficacy for bed bug (<i>Cimex lectularius</i>) (Hemiptera: Cimicidae) control in apartment units containing different volumes of clutter - <i>Dini M. Miller, Molly Stedfast, Katlyn Amos and Ian Sandum</i>
15.00 – 15.30	Coffee/Tea Break - Litchfield Lounge
15.30 – 16.00	9. Efficacy of a polydimethylsiloxane formulation against urban mosquito pests in the UK <i>John Anthony Lloyd and Charles Phillips</i>
16.00 – 16.30	10. Building consumer trust with international pest management credentialing - <i>Christopher John Stelzig</i>
16.30 – 17.00	FINAL DISCUSSION
19.00 – 24.00	CONFERENCE DINNER - Birmingham Botanical Gardens

POSTER SESSION Tuesday 11th July 2017, 14.30 – 17.00**COCKROACHES**

1	CONTROL OF PERIPLANETA AMERICANA AND BLATTELLA GERMANICA OOTHECAE USING CHEMICAL AND BIOLOGICAL INSECTICIDES <i>Mariah Valente Baggio-Deibler, Roberto M. Pereira, Marcelo da Costa Ferreira</i>
2	CONTROL OF TWO POPULATIONS OF PERIPLANETA AMERICANA BY SPRAYING CHEMICAL AND BIOLOGICAL INSECTICIDES IN URBAN SEWAGE <i>Mariah Valente Baggio-Deibler, Marcelo da Costa Ferreira</i>
3	GENETIC ANALYSIS OF TWO POPULATIONS OF PERIPLANETA AMERICANA <i>Mariah Valente Baggio-Deibler, Marcelo da Costa Ferreira, Andressa de Souza, Manoel Victor Franco Lemos</i>
4	COCKROACH MANAGEMENT, A MUNICIPAL APPROACH. CITY OF MADRID (SPAIN) <i>Cámara J.M., Torres P, Rey-Caramés C., Blázquez A., Álvarez-Ruiz S. and Calderón L.</i>
5	MULTIRESISTANT GERMAN COCKROACHES IN RUSSIA <i>Olga Eremina, Veronika Olfier, Ilkhamia Ibragimkhalilova</i>
6	PERFORMANCE OF GEL BAIT INSECTICIDE IN THE SEWAGE SYSTEM OF BARCELONA FOR COCKROACH CONTROL <i>Franco, S.; Simic, T.; Valsechi, A.; Bueno, R.; García-Howlett, M. and Peracho, V.</i>
7	INCIDENCE OF PATHOGENIC BACTERIA ON COCKROACHES COLLECTED IN DIFFERENT MUNICIPAL BUILDINGS OF BARCELONA <i>Montalvo T., Barahona L., Pepió M., Bueno R., Jarque J., Ramírez B., Sabater S., Planell R., Peracho V.</i>
8	RESIDUAL EFFECTIVENESS EVALUATION OF INSECTICIDES AGAINST COCKROACHES ON POROUS SURFACE <i>Marcos R. Potenza, Marcia da F. Valbuza, Washington L. B. Ferreira and Guilherme Stagni</i>
9	COMPARATIVE EVALUATION OF COCKROACH GEL BAITS PALATABILITY AGAINST BLATTELLA GERMANICA <i>Marcos R. Potenza, Fabrício C. Reis, Thais L. Lima; Washington L. B. Ferreira and Guilherme Stagni</i>

RODENTS

10	COMPARATIVE RODENTICIDES PALATABILITY AGAINST RATTUS RATTUS AND MUS MUSCULUS ON POULTRY FARM FACILITIES <i>Marcos R. Potenza, Maria F. dos Santos Meneguetti, Washington L. B. Ferreira and Guilherme Stagni</i>
11	BURROW TREATMENT WITH BIOCIDES BAITING IN URBAN GREEN AREAS OF BARCELONA <i>Franco, S.; Toner, J.; Rispa, R.; Bueno, R.; García-Anglés, A. and Peracho, V.</i>
12	DEVELOPMENT OF THE FIRST TRANSDERMAL RODENTICIDE SYSTEM AN ALTERNATIVE TO ANTICOAGULANT MULTI-FEEDING <i>Steve L. Goode, PiedPiper project/ Project Coordinator</i>

BEDBUGS	
13	A REVIEW OF THE CHALLENGES AND LESSONS LEARNED IN DEVELOPING PROACTIVE MANAGEMENT STRATEGIES TO COMBAT INFESTATIONS OF CIMEX LECTULARIUS (HETEROPTERA: CIMICIDAE) IN COMMERCIAL ACCOMODATION ENVIRONMENTS - <i>David Cain</i>
14	CASE REPORT: DESCRIPTION OF BED BUGS (HEMIPTERA: CIMICIDAE) INFESTATION IN PRISON, ESTATE OF SAO PAULO, BRAZIL. <i>Marcio Rodrigues Lage and José Maria Soares Barata (in memoriam)</i>
15	BED BUG MUNICIPAL MANAGEMENT. CITY OF MADRID (SPAIN) <i>Cámara J.M., Torres P., Ortiz C., Arribas A., Pérez A., and Garrastazu C.</i>
16	BLOOD PRODUCT REQUIREMENTS OF LABORATORY-REARED CIMEX LECTULARIUS (HEMIPTERA: CIMICIDAE) <i>Mark F. Feldlaufer</i>
MOSQUITOES AND BITING FLIES	
17	SYNANTHROPIZATION OF MOSQUITOES (DIPTERA: CULICIDAE) OF SIBERIA AND AMUR REGION <i>Elena Bogdanova</i>
18	KNOWLEDGE, ATTITUDES AND PRACTICES ABOUT AEDES AEGYPTI (DIPTERA: CULICIDAE), VECTOR OF DENGUE, CHIKUNGUNYA AND ZIKA IN VILLAVICENCIO (COLOMBIA)- <i>Gloria Isabel Jaramillo and Luz Stella Buitrago</i>
19	INTER- AND INTRA-SPECIFIC LARVAL COMPETITION OF TWO CONTAINER BREEDING MOSQUITOES IN SOUTH TEXAS <i>Sakshi Puri, Felicia Vazquez, Christopher Vitek</i>
20	AEDES (STEGOMYIA) AEGYPTI AND AEDES (STEGOMYIA) ALBOPICTUS IN RUSSIA <i>Svetlana A. Roslavtseva and Mikhail A. Alekseev</i>
21	IDENTIFICATION OF MOSQUITOES USING MORPHOMETRIC WING CHARACTERS - <i>André Barretto Bruno Wilke, Rafael de Oliveira Christe, Laura Cristina Multini, Paloma Oliveira Vidal, Ramon Wilk-da-Silva, Gabriela Cristina de Carvalho, Mauro Toledo Marrelli.</i>
22	SPECIES IDENTIFICATION OF THE ANOPHELES FLUVIATILIS COMPLEX USING PHYLOGENETIC ANALYSIS PCR-SEQUENCING IN SOUTHWESTERN IRAN <i>Gholamhossein Shahraki and Zeynab Barghamadi</i>
23	MOSQUITOES (DIPTERA: CULICIDAE) IN THE CAPITAL OF THE CZECH REPUBLIC <i>Frantisek Rettich</i>
24	FAUNA AND FREQUENCY OF PHLEBOTOMINE SAND FLIES (DIPTERA: PSYCHODIDAE) IN SOUTHWESTERN IRAN <i>Gholamhossein Shahraki</i>
MEDICAL ENTOMOLOGY	
25	REPORT OF PAEDERUS SPECIOSUS IN IRAN, MAZANDARAN AND FARS PROVINCES, 2012- 2013. <i>Sahar Bazrafkan, Seyed Mohammad Abtahi, Ali Asghar Bazdar, Ali Mehdinia and Hassan Mojarad</i>
26	QUANTITATIVE CHARACTERIZATION OF PEDERIN IN THE ROVE BEETLE, STAPHILINIDAE; PAEDERUS, IN MAZANDARAN AND FARS PROVINCES, IRAN. <i>Sahar Bazrafkan, Mohammad Ali Oshaghi and Mansoureh Shayeghi</i>
27	FLYING INSECT FAUNA OF HOSPITALS <i>Matthew P. Davies, Moray Anderson and Anthony C. Hilton</i>
28	CHARACTERIZATION OF ANTIBACTERIAL ACTIVITIES OF A SUBTERRANEAN TERMITE AGAINST HUMAN PATHOGENS <i>Xing Ping Hu, Sang-Jin Suh, Yuan Zeng</i>
29	UNDERSTANDING HOUSEHOLDERS' INTENTIONS TO ENGAGE IN PEST CONTROL: THE USE OF THE HEALTH BELIEF MODEL <i>Stefan A. Lipman and Sara A. Burt</i>
30	FREQUENCY OF KNOCKDOWN RESISTANCE MUTATIONS IN BODY LICE (PHTHIRAPTERA: PEDICULIDAE) FROM RUSSIA <i>Yuliya V. Lopatina, Olga Yu. Eremina, Liudmila S. Karan</i>
POSTERS (GENERAL)	
31	LASER TECHNOLOGY FOR BIRD DISPERSAL <i>Steinar Henskes, Tim Sprang, Henk van Dijke</i>
32	INTENSITY-DEPENDENT SUCCESS OF FERAL PIGEON POPULATION CONTROL BY CULLING IN BARCELONA CITY (CATALONIA, SPAIN) <i>J Pascual, T Montalvo, V Peracho & JC Senar</i>
33	PHYTOMASS OF URBAN ECOSYSTEMS AS THE BASIS FOR ATTRACTION OF DESIRABLE AND UNDISARABLE ORGANISMS <i>Valentin B. Sapunov</i>
34	CONTROLLING INVASIVE TREE PESTS IN THE URBAN FOREST USING TREE MICRO INJECTION <i>Alexander Cornish and Peter Wyss</i>
35	LURING BISCUIT BEETLES (COLEOPTERA: ANOBIIDAE) AWAY FROM DRIED ORNAMENTAL PLANTS <i>Chris Swindells and Yvette Harvey</i>
36	AUSTERITY BITES: LOCAL AUTHORITY PEST CONTROL SERVICES <i>Matthew Audley, Simon Forrester, and Parminder Thindal</i>
37	ABILITY OF TRAINED SCENT DETECTION DOGS TO DETECT GRAIN WEEVIL IN WHEAT SAMPLES <i>A Juson and C Juson</i>
38	INSECTICIDE CANDLE <i>Boey Wai Loon</i>

ICUP 2017 BIRMINGHAM UK

9th INTERNATIONAL
CONFERENCE
ON URBAN PESTS
9-12 JULY

SPONSORS



For more information, updates, and for registration, visit:

www.icup2017.org.uk