

CONFERENCE PROGRAMME DAY 1 31ST AUGUST 2017

		CONTENED INCOMAMINE DATE 3131 AUGUST 2017
08.30 -	08.55	DELEGATE REGISTRATION
08.55 -	09.00	WELCOME ADDRESS: PROF PURNENDU K DAS, ASRANET LTD
09.00 -	09.40	KEYNOTE PAPER: BIOMATERIALS AND NANOTECHNOLOGY FOR IMPROVEMENT OF CANCER THERAPY OUTCOMES
		PROFESSOR JONATHAN KNOWLES, UNIVERSITY COLLEGE LONDON, UK
		SESSION 1
09:40 -	- 10:00	INVITED PAPER: X-RAY SPECTROSCOPY OF SOME NANOSCALE BIOMATERIALS TOWARD BIO- MEDICAL APPLICATIONS PROFESSOR PENG ZHANG, DALHOUSIE UNIVERSITY, CANADA
10:00 -	- 10:20	2D/3D CNT-BASED PLATFORMS FOR ENHANCED NEURONAL NETWORK DEVELOPMENT MS. ILARIA RAGO, UNIVERSITY OF TRIESTE, ITALY
10:20 -	10:40	CARBON BASED 3D SCAFFOLDS PROMOTE CELLULAR MIGRATION GUIDING TISSUE-LIKE CELLU- LAR ASSEMBLING AND FUNCTIONAL RECONNECTION OF SEGREGATED EXPLANTS DR. DENIS SCIANI, INTERNATIONAL SCHOOL FOR ADVANCED STUDIES, ITALY
10:40	- 11:10	BREAK
11:10	- 11:30	INFLUENCE OF MICRORHEOLOGICAL AND STRUCTURAL PROPERTIES OF HA/COLL CRYOGEL SCAFFOLDS ON 3T3 FIBROBLAST CULTURE MRS. JOHANNA ROETHER, KARLSRUHE INSTITUTE OF TECHNOLOGY, GERMANY
11:30	- 11:50	HOW TO DISING BIOCOMPATIBLE TI-BASED METALLIC GLASSES IN FORM OF SPUTTERING COATEINS WIITH HIGH WEAR RESISTANCE FOR IMPLANT APPLICATIONS DR. EMILIO FRUTOS TORRES, CZECH TECHNICAL UNIVERSITY IN PRAGUE
11:50	- 12:10	PROTEIN SELF-ASSEMBLY AT OIL-WATER INTERFACES CONTROLS NANOSCALE MECHANICS, CELI ADHESION AND STEM CELL FATE DECISION DR. JULIEN GAUTROT, QUEEN MARY UNIVERSITY OF LONDON, UK
12:10 -	- 12:30	ECHINODERM COLLAGEN NETWORKS: MECHANICAL PROPERTIES PROFESSOR CATERINA LA PORTA, UNIVERSITY OF MILAN, ITALY
12:30 -	14:00	LUNCH
		SESSION 2
14:00 -	- 14:20	CHARACTERIZATION OF SOLID-SUPPORTED ULTRATHIN FILMS AND MOLECULAR INTERACTIONS USING MP-SPR DR. NIKO GRANQVIST, BIONAVIS LTD., FINLAND
14:20 -	14:40	HYBRID HYDROGELS BASED ON METHACRYLOYL DERIVATIVES OF GELATIN AND MUCIN DR. ANDRADA SERAFIM, UNIVERSITY POLITEHNICA OF BUCHAREST, ROMANIA
14:40 -	- 15:00	BIOCOMPOSITES BASED ON CUTTLEFISH BONE BIOGENOUS MINERAL FOR BONE TISSUE REGENERATION DR. DIANA-MARIA DRAGUSIN, UNIVERSITY POLITEHNICA OF BUCHAREST, ROMANIA
15:00 -	15:30	BREAK
15:30 -	- 15:50	NANOFIBERS BASED OF TITANIUM NANOTUBES AS SCAFFOLDS FOR MAINTENANCE AND DIFFERENTIATION OF ELECTROSTIMULATED NEURAL PC12 CELLS

DR. YUSSER OLGIN, ANDRES BELLO NATIONAL UNIVERSITY, CHILE

15:50 - 16:10 OSSEOCONDUCTIVE PROPERTIES OF IMPLANTS COATED WITH HIERARCHICALLY POROUS SCAF-FOLDS OF CALCIUM CARBONATE BIOCERAMIC
PROFESSOR SACHIN KHAPLI, NYU, ABU DHABI, UAE

AFTERNOON WORKSHOP

14:00 - 16:00 SURFACE ENGINEERING TO CONTROL BIOLOGICAL-SURFACE INTERACTIONS DR PAUL ROACH, LOUGHBOROUGH UNIVERSITY, UK

1900 CONFERENCE DINNER CROYDON PARK HOTEL, 7 ALTYRE RD, CROYDON, CR9 5AA

CONFERENCE PROGRAMME DAY 2 1ST SEPTEMBER 2017

09:00 - 09:40 KEYNOTE PAPER: ION SUBSTITUTION OF HYDROXYAPATITES - AN APPROACH TO INTRODUCE BIOLOGICAL FUNCTION TO CALCIUM PHOSPHATES

PROFESSOR IAIN GIBSON, UNIVERSITY OF ABERDEEN, UK

SESSION 3

- 09:40 10:00 INNOVATIVE AND ECO-FRIENDLY MARINE COLLAGEN SUBSTRATES FOR TISSUE REGENERA-TION APPLICATIONS DR. MICHELA SUGNI, UNIVERSITY OF MILAN, ITALY
- 10:00 10:20 BIOFABRICATION OF CONSTRUCTS FOR BONE REGENERATION USING AN ALGINATE DI-ALDEYHDE (ADA) GELATIN (GEL) CROSSLINKED HYDROGEL (ADA-GEL) PROFESSOR ALDO BOCCACCINI, UNIVERSITY OF ERLANGEN-NUREMBERG, GERMANY
- 10:20 10:40 ANALGESIC DRUG RELEASE FROM A CAP BIOMATERIAL: FIRST IN VIVO STUDY USING CATWALK SYSTEM

 MS. MANON DUPLEICHS, UNIVERSITY OF NANTES, NANTES, FRANCE

10:40 - 11:10 BREAK

- 11:10 11:30 BIOENGINEERING HIERARCHICAL APATITE STRUCTURES FOR DENTAL REGENERATION MR. SHERIF ELSHARKAWY, QUEEN MARY UNIVERSITY OF LONDON, UK
- 11:30 11:50 SURFACE MICROSTRUCTURE STUDY AND EVALUATION OF OSTEOGENIC STEM CELLS DIFFER-ENTIATION ON BONE APATITE-LIKE COATINGS OBTAINED BY PULSED ELECTRON ABLATION OF A BIOGENIC SOURCE DR. ALESSANDRO GAMBARDELLA, RIZZOLI ORTHOPAEDIC INSTITUTE, ITALY
- 11:50 12:10 TOPOGRAPHICAL AND MECHANICAL CHARACTERIZATION OF BIOMATERIALS BY ATOMIC FORCE MICROSCOPY

 DR ALEX WINKEL, JPK INSTRUMENTS LTD, GERMANY
- 12:10 12:30 DEVELOPMENT OF BIOACTIVE BIOGLASS SCAFFOLDS COATED WITH IRON-LOADED HYDROXY-APATITE NANOCOMPOSITES AS POTENTIAL BIOMATERIALS FOR BONE TISSUE REPAIR MARÍA DITTLER, CONICET, ARGENTINA

12:30 - 1400 LUNCH SESSION 4

- 14:00 -14:20 **OPTIMIZING THE MATERIAL CHOICE AND THE DESIGN OF A SPINAL IMPLANT** DR. MICHEL MESNARD, UNIVERSITÉ DE BORDEAUX, FRANCE
- 14:20 -14:40 THE POWER OF BESPOKE BIOCOMPATIBLE AND BIODEGRADABLE HYDROGELS GUILLAUME SAINT-PIERRE, PEPTIGELDESIGN TECHNOLOGIES, UK
- 14:40 -15:00 THE INFLUENCE OF TITANIUM MICROGROOVES ON THE MORPHOLOGY AND ADHESIONS OF OSTEOBLASTS

 MS NA GUI, RMIT UNIVERSITY, AUSTRALIA

15:00 -15:30 BREAK

- 15:30 15:50 HEPROCEL NEW BIODEGRADABLE HEMOSTATIC AGENT FOR SURGERY DR. R.A. SADYKOV, REPUBLIC SPECIALIZED CENTER OF SURGERY, UZBEKISTAN
- 15:50 16:10 STUDY ON THE BEHAVIOR OF STEEL REINFORCED CONCRETE SECTION WITH AFRP TUBES UNDER COMPRESSION

 MR ANJANA P, SRM UNIVERSITY, INDIA
- 16:10 16:30 FABRICATION AND EVALUATION OF PHEMA-PLLA SEMI-INTERPENETRATING NETWORKS FOR BIOMEDICAL APPLICATIONS

 MARCELE PASSOS, STATE UNIVERSITY OF CAMPINAS, BRAZIL
- 16:30 16:50 POLYLYSINE-MODIFIED POLYETHYLENIMINE (PEI-PLL) MEDIATED VEGF GENE DELIVERY PRO-TECTS DOPAMINERGIC NEURONS IN CELL CULTURE AND IN RAT MODELS OF PARKINSON'S DISEASE (PD) DR. MUHAMMAD SHEIKH, UNIVERSITY OF THE PUNJAB, LAHORE, PAKISTAN
 - 16:50 CONFERENCE CLOSES

About Keynote Speakers

DR JONATHAN KNOWLES UNIVERSITY COLLEGE LONDON, UNITED KINGDOM



JONATHAN KNOWLES IS PROFESSOR OF BIOMATERIALS SCIENCE AND UNIVERSITY COLLEGE LONDON. HIS WORK FOCUSSES ON A RANGE OF DEGRADABLE MATERIALS, FROM ORGANIC TO IN-ORGANIC AS WELL AS DEVELOPMENT OF SYNTHESIS AND PROCESSING METHODS TO ENHANCE THEIR BIOLOGICAL PROPERTIES. HIS WORK IS FUNDED BY A VARIETY OF FUNDING AGENCIES, INCLUDING EPSRC, EU H2020 AND CHARITIES AS WELL AS INDUSTRIAL PARTNERSHIPS. HE HAS PUBLISHED EXTENSIVELY WITH OVER 300 PAPERS IN PEER REVIEWED JOURNALS AND HAS OVER 12,000 CITATIONS. HE IS A FELLOW OF BOTH THE INSTITUTE OF MATERIALS MINERALS AND MINING AND THE ROYAL SOCIETY OF CHEMISTRY.

PROFESSOR IAIN GIBSON UNIVERSITY OF ABERDEEN, UNITED KINGDOM



IAIN GIBSON IS A PROFESSOR OF BIOMATERIALS AND REGENERATIVE MEDICINE AT THE UNIVERSITY OF ABERDEEN. HIS RESEARCH FOCUSES ON UNDERSTANDING THE EFFECTS OF BIOMATERIAL CHEMISTRY AND SURFACE PHYSICAL PROPERTIES ON CELL AND TISSUE BEHAVIOUR. THIS INCLUDES INORGANIC BIOMATERIALS FOR USE AS SCAFFOLD MATERIALS RELATED TO BONE REPAIR AND SURFACE FUNCTIONALISED AND/OR COATED METALS FOR USE AS MEDICAL DEVICES. HE HAS PUBLISHED OVER 65 PAPERS, WITH OVER 4000 CITATIONS, AND IS A NAMED INVENTOR ON OVER 10 PATENTS. SOME ASPECTS OF HIS RESEARCH HAVE BEEN TRANSLATED FROM ACADEMIA TO INDUSTRY, AND HE IS A FOUNDER AND DIRECTOR OF A MEDICAL DEVICE COMPANY, SIRAKOSS LTD.

CONFERENCE VENUE



GUESTS VISITING LONDON FOR BUSINESS OR PLEASURE, THE JURY'S INN CROYDON HOTEL IS PERFECT FOR THOSE NOT WISHING TO BE IN THE HUSTLE AND BUSTLE OF BUSY LONDON, BUT STILL CLOSE BY. THE HOTEL PROPERTY OFFERS CHEAP HOTEL ROOMS AT A CENTRAL LOCATION WITH THE WHITGIFT SHOPPING CENTRE OVER THE ROAD AND EAST CROYDON STATION A SHORT 3-4 MINUTE WALK AWAY. FOR THOSE WANTING TO GO INTO CENTRAL LONDON FOR A LEISURE DAY, OR FOR BUSINESS, EAST CROYDON STATION IS A SHORT 17 MINUTE TRAIN RIDE TO LONDON VICTORIA OR LONDON BRIDGE. HOWEVER, THERE IS PLENTY TO DISCOVER IN CROYDON WITH VARIOUS HERITAGE SITES TO EXPLORE. THE QUEEN'S GARDENS ARE AN EASY 6 MINUTE WALK AND SHIRLEY PARK GOLF COURSE IS A 7 MINUTE DRIVE AWAY.



JURY'S INN HOTEL WELLESLEY ROAD, CROYDON, LONDON CRO 9XY

CONFERENCE DINNER VENUE



OSCARS BRASSERIE OFFERS A MOUTH-WATERING RANGE OF EUROPEAN AND INTERNATIONAL CUISINE PREPARED WITH FRESH AND LOCAL INGREDIENTS BY OUR COSMOPOLITAN LINE UP OF CHEFS. CROYDON PARK HOTEL IS A CENTRALLY LOCATED 4 STAR HOTEL AND JUST A 3 MINUTE WALK TO EAST CROYDON STATION WHERE DIRECT TRAINS WILL TRANSPORT YOU TO THE TWO MAIN STATIONS SERVICING BOTH CENTRAL LONDON AND THE CITY, IN UNDER 15 MINUTES; LONDON VICTORIA OR LONDON BRIDGE.



31ST AUGUST 2017, 19:00

CROYDON PARK HOTEL
7 ALTYRE RD
CROYDON
CR9 5AA