



## Provisional Programme Outline

Sunday 8 April 2018		
11h00	Depart on Tour to Sterkfontein Caves and Maropeng Visitor Centre	
17h00	Return From Tour	
18h00	Welcome function	
Monday 9 April 2018		
07h30	Registration open	
08h30	Opening	<b>Martha Trujillo</b>
08h40	<b>P1</b> Keynote: A need for taxonomists to take actions before it's too late	<b>Ramon Rosselló-Móra</b>
09h30	Tea Break	
10h00	Session 1	
10h00	<b>P2</b> Keynote: Update in the phylogeny and hierarchy of the members of the phylum <i>Actinobacteria</i> <b>Wen-Jun Li</b>	
10h30	<b>1.1</b> Revisiting genotypic and phenotypic properties as an aid to circumscribe species of the genus <i>Salinispora</i> <b>Luis Maldonado</b>	
10h50	<b>1.2</b> The use of whole genome sequencing to confirm the recognition of <i>M. noduli</i> and <i>M. saelicesensis</i> <b>Raul Riesco</b>	
11h10	<b>1.3</b> Genome-scale data call for a taxonomic rearrangement of <i>Geodermatophilaceae</i> <b>Maria del Carmen Montero-Calasanz</b>	
11h30	<b>1.4</b> Diversity and distribution of sphingomonads <b>Yilli Huang</b>	
11h50	<b>1.5</b> Genome-informed <i>Bradyrhizobium</i> taxonomy: where to from here? <b>Juanita Avontuur</b>	
12h10	<b>1.6</b> Divergence and gene flow in <i>Xanthomonas</i> plant pathogens <b>Marion Fischer-Le Saux</b>	
12h30	Lunch	
13h30	Session 2	
13h30	<b>P3</b> Keynote: Creating the taxonomic structure for the phylum <i>Acidobacteria</i> <b>Svetlana Dedysh</b>	
14h00	<b>2.1</b> A core-genome sequence based taxonomy of the family <i>Leptotrichiaceae</i> calculated using EDGAR 2.0 <b>Peter Kämpfer</b>	
14h20	<b>2.2</b> Appreciating the role of the chemical composition of the cell in studying species diversity <b>Brian Tindall</b>	
14h40	<b>2.3</b> Genome sequence-based criteria for species demarcation: Insights from the genus <i>Rickettsia</i> <b>Pierre-Edouard Fournier</b>	
15h00	<b>2.4</b> Phenotypic characterization requirements hamper the description of new species <b>Maria Josefa Figueras</b>	
15h20	<b>2.5</b> What exactly are bacterial subspecies? <b>Stephanus Venter</b>	
15h20	Tea	
15h50	Discussion: Where to with species descriptions (Leader Martha Trujillo)	
17h00	Poster session with short introductions	
18h30	Dinner	

Tuesday 10 April 2018	
8h30	Session 3
8h30	<b>P4</b> Keynote: Phylogenomic analyses of a clade within the roseobacter group suggest taxonomic reassignments of species of the genera <i>Aestuariivita</i> , <i>Citricella</i> , <i>Loktanella</i> , <i>Nautella</i> , <i>Pelagibaca</i> , <i>Ruegeria</i> , <i>Thalassobius</i> , <i>Thiobacimonas</i> , and <i>Tropicibacter</i> and the proposal of the six novel genera <i>Cognatishimia</i> , <i>Cognatiyoonia</i> , <i>Flavimaricola</i> , <i>Limimaricola</i> , <i>Pseudaestuariivita</i> , and <i>Yoonia</i> <b>Barny Whitman</b>
9h00	<b>3.1</b> Underdiagnoses and misdiagnoses of lung infection caused by pathogenic aerobic actinomycetes <b>Kang Ying-Qian</b>
9h30	<b>3.2</b> Identification and recovery of "missing microbes" from the gut microbiota of human populations living non-industrial lifestyles <b>Paul Lawson</b>
9h50	<b>3.3</b> Capturing the hidden bacterial diversity at the Lonar Crater, India formed ~52000 years ago <b>Kamlesh Jangid</b>
10h10	<b>3.4</b> Phylogenetic characterisation of <i>Streptomyces</i> species causing fissure scab of potatoes in South Africa <b>Michele Cloete</b>
10h30	Tea
11h00	Session 4
11h00	<b>P5</b> Keynote: Cultivation, physiology, genomic, and exometabolomic study of previously uncultivated Chloroflexi class TK10 (TK17), a global inhabitant of geothermal springs and other environments <b>Brian Hedlund</b>
11h30	<b>4.1</b> Genomic diversity of human gut-associated <i>Treponema</i> inferred from shotgun metagenomic datasets <b>Krithivasan Sankaranarayanan</b>
11h50	<b>4.2</b> Application of whole genome sequencing to exploring intra-generic heterogeneity <b>Vartul Sangal</b>
12h10	<b>4.3</b> Relating tRNA gene diversity with the evolution of <i>Planctomycetes-Verrucomicrobia-Chlamydia</i> (PVC) and PVC-like bacteria <b>Bhagwan Rekadwad</b>
12h30	<b>4.4</b> Phylogenomic analyses: The whole is greater than the sum of its parts <b>Marike Palmer</b>
12h50	Lunch
14h00	BISMIS AGM
15h00	Tea
15h30	Poster session with short introductions
16h30	Bergey's Award lecture <b>P6</b> Keynote: Database-driven taxonomic framework for Bacteria and Archaea <b>Jongsik Chun</b>
18h30	Conference dinner
Wednesday 11 April 2018	
8h30	Session 5
8h30	<b>P7</b> Keynote: The evolution of fungal taxonomy: from cryptic Latin diagnoses to genome-facilitated systematics <b>Wilhelm de Beer</b>
9h00	<b>5.1</b> Lessons from bacterial systematics are shaping our concepts of fungal species <b>Emma Steenkamp</b>
9h20	<b>5.2</b> Multiple uses of genome sequences in characterizing novel bacteria <b>Jeffrey Newman</b>
9h40	<b>5.3</b> Importance of microbial culture collections (mBRC's) <b>Paul de Vos</b>
10h00	Tea
10h30	Discussion: Bacterial systematics: What lies ahead? (Leader: Iain Sutcliffe)
11h30	Closing <b>Iain Sutcliffe</b>
12h00	Lunch
13h00	Depart on Lion Park tour / Lion Park, Lesedi, Pilanesberg Tour