

THURSDAY 8 DECEMBER – MORNING

7.30-8.30	REGISTRATION Oppenheimer Entrance Foyer
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SESSION 6	Venue: Plenary/MS Hall (Oppenheimer Conference Room 2) <i>Chair: Dr Jaco Olivier</i>	Venue: LS Lecture Hall (Oppenheimer Conference Room 3) <i>Chair: Dr Janette Bester</i>
08.30-09.00	KEYNOTE <u>TEM TOMOGRAPHY AT ROOM TEMPERATURE</u> <u>A. Ziegler</u>	KEYNOTE <u>APPLICATION OF ANIMAL MODELS IN HEAVY METAL TOXICITY RESEARCH</u> <u>H.M. Oberholzer</u>
09:00–09:20	<u>AN IN-SITU HEATING TEM INVESTIGATION OF CELL FORMATION IN THE AA5182 ALUMINIUM ALLOY</u> G.K. Morrison, J. E. Olivier, C. Lang, N. Nasiri, A. Janse van Vuuren, S. George	<u>HISTOMORPHOLOGICAL EFFECTS OF MELATONIN AND cART ON THE PANCREAS AND KIDNEY IN RATS</u> D. Venter, H. Strijdom, I. Webster and S.H. Kotzé
09:20–09:40	<u>OPTIMIZATION OF THE ADDITION OF NIOBIUM AS A BETA STABILIZER IN A TITANIUM ALLOY FOR MEDICAL APPLICATIONS</u> K.E. Mrwata, C.W. Siyasiya, N.K. Arthur	<u>HISTOLOGY OF THE SOUTHERN GROUND-HORNBILL (<i>Bucorvus leadbeateri</i>) GASTRO-INTESTINAL TRACT</u> A.D. Naudé, K.N. Koepfel and M.R. Crole
09.40–10:00	<u>INFLUENCE OF SINTERING TEMPERATURE ON THE MECHANICAL PROPERTIES OF SINTERED ZRO₂/SI₃N₄ DOPED TI6Al4V</u> O.A Ogunmefun, B.L Bayode, P.O Olubambi	<u>MICROSCOPIC ARCHITECTURE OF JAPANESE QUAIL LUNGS CHALLENGED BY THERMAL EXPOSURE</u> A. Abdulkadir and D. Reddy

10.00–10:20	WEAR BEHAVIOUR OF SPARK PLASMA SINTERED TiAl ALLOY M.R. Mphahlele, P.A. Olubambi, E. Olevsky	A MORPHOLOGICAL STUDY OF THE PULMONARY COMPONENTS IN THE LUNGS OF THE RED EARED SLIDER S. Mulder, D. Reddy and A. Abdulkadir
10.20–10:40	DEVELOPMENT OF BETA TYPE TITANIUM BASED ALLOYS FOR DENTAL APPLICATIONS K. Dyal Ukabhai, I.A Mwamba, L.A Cornish	MICROSTRUCTURE OF THE SPLEEN OF THE SOUTHERN WHITE RHINOCEROS (<i>Ceratotherium simum simum</i>) A. Metzinger, M.R. Crole, S.J. Clift, L.C.R. Meyer, P. Buss, J. Meuffels, U. Teubenbacher and F. Pohlin
10.40-11.10	COFFEE BREAK	
SESSION 7	Venue: Plenary/MS Hall (Oppenheimer Conference Room 2) Chair: Dr Sinoyolo Ngongo	Venue: LS Lecture Hall (Oppenheimer Conference Room 3) Chair: Dr Deran Reddy
11.10–11:30	Ti3Al EMBRITTLEMENT IN TEMPORARY HYDROGEN ALLOYED Ti-6Al-4V V.N. Vilane, R.D. Knutsen, J.E. Westraadt	AMELIORATION OF OLFACATORY DEFICITS BY <i>Nigella Sativa</i> OIL IN DEVELOPMENTALLY MODELLED SCHIZOTYPY IN BALB/c MICE A.A. Bello and R.O. Folarin
11:30–11:50	SPINODAL DECOMPOSITION OF Ti-6Al-4V-xH MARTENSITE V.N. Vilane, R.D. Knutsen, J.E. Westraadt	25-HYDROXYVITAMIN D3 INDUCES BIOCHEMICAL AND MORPHOLOGICAL APOPTOSIS IN THE HELA CELL LINE E.V.M. Zhou, S. Bhoora, T.S. Pillay and R. Punchoo
11:50–12:10	DISLOCATION DENSITY MEASUREMENT IN FATIGUE TESTED AISI316 USING X-RAY DIFFRACTION D. Ramasimong, J.E. Westraadt, R.D. Knutsen	MODULATORY EFFECTS OF <i>Nigella sativa</i> OIL ON HIPPOCAMPUS OF DIZOCILPINE-INDUCED SCHIZOPHRENIA IN BALB/c MICE R.O. Folarin, O. Owoeye and A.O. Malomo
12:10–12:30	EFFECT OF SINTERING TEMPERATURE ON THE MICROSTRUCTURE AND HARDNESS OF LOW-DENSITY STEELS J.K. Thobejane, T. Langa, J.W. Van der Merwe, D.E.P Klenam, M.O. Bodunrin	Nigella Sativa OIL MITIGATED LEARNING AND MEMORY IMPAIRMENT IN <i>Drosophila</i> MODEL OF ALCOHOL DEHYDROGENASE (ADH) DEFICIENCY A.K. Akinbo, S.A. Kuye and R.O. Folarin

12:30–12:50	<p><u>FORMATION OF MODIFIED Z-PHASE IN A 12Cr1MoV TMF STEEL DURING LONG-TERM CREEP</u></p> <p><u>W.E. Goosen</u>, J.E. Westraadt</p>	<p><u>FRONTO-CORTICAL EFFECTS OF Nigella sativa OIL IN MPTP INDUCED PARKINSONISM IN BALB/C MICE</u></p> <p><u>K.O. Adeniran</u>, P.F. Folarin, B.S. Surajudeen, P.S. Ogunkunle, A.O. Olonade and R.O. Folarin</p>
12.50-13.00	Closing remarks	
END OF TECHNICAL AND SCIENTIFIC PROGRAMME		
13.00 -14.00	<p>LUNCH</p> <p>Venue: Barney's Restaurant</p>	

19.00	<p>GALA DINNER & AWARDS CEREMONY Venue: Oppenheimer Exhibition Hall (Oppenheimer Conference Room 1)</p> <p>Dress Code: Formal / Traditional</p> <p>Sponsored by Angstrom Scientific / JEOL</p>	 <p>The image contains two logos. On the left is the Angstrom logo, which features a stylized atomic symbol with three blue orbits and a central grey nucleus, with the word 'ÅNGSTROM' in blue capital letters below it. On the right is the JEOL logo, which consists of the word 'JEOL' in a bold, blue, sans-serif font, followed by a circular graphic element made of two overlapping blue and green arcs.</p>
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