

| Monday 16 April 2007 | | | | |
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| | Time | Delegate | Title | |
| Danie Pienaar | 8:00 | Kruger, J. M. | Welcome | |
| | 8:05 | Dr Bandile Mkhize | Opening | |
| | LEARNING BY DOING | | | |
| | 8:20 | Roux, D | Learning by doing: How are we doing? | |
| | 8:50 | Grant, R | Systems Ecology <i>Quo Vadis</i> ? | |
| | 9:05 | Scheepers, K.J | Challenges in developing thresholds of potential concern (TPCs) for natural resource use in Kruger National Park | |
| | 9:20 | Kruger, J.M. | The challenges and achievements of Science Support in the Kruger National Park | |
| | 9:35 | Sigwela, A. | Restoration and rehabilitation in SANParks: Opportunities and Constraints | |
| | 9:50 | Discussion | | |
| | 10:00 | TEA | | |
| HETEROGENEITY CREATED BY HERBIVORES | | | | |
| Holger Eckhardt | 10:45 | Shannon, G. | The utilisation of large trees by elephant | |
| | 11:00 | Duffy, K. Page, B. & Slotow, R. | Co-existence of elephants and trees in systems with abundant and rare species | |
| | 11:15 | Kohi, E.M, de Boer, F. Grant, R & Prins, H. | The role of elephants in enhancement of species richness (Proposal) | |
| | 11:30 | Fynn, R. W.S., Burkepile, D. E., Knapp, A.K., Smith, M.D. & Govender, N | The influence of herbivory on grassland community composition and diversity in the Kruger National Park: disentangling the roles of herbivore size and habitat fertility | |
| | 11:45 | Skarpe, C, Makhabu, S., Hytteborn, H. & Aarrestad, P.A | Elephant impact on woody vegetation along the Chobe riverfront, Botswana | |
| | 12:00 | Parr, K. | Habitat-contingent promotion of competitive dominance in African savannas | |
| | 12:15 | MacFadyen, D., van der Merwe, M., & Bredenkamp, G | A comparative study of rodent and shrew diversity and abundance in and outside the N'washitshumbe enclosure site in Kruger National Park | |
| | 12:30 | LUNCH | | |
| Remote Sensing Applications And How They Can Be Used For Monitoring | | | | |
| | 14:00 | Asner, G | Regional studies of 3-D vegetation structure, composition, and physiology using the Carnegie Airborne Observatory | |
| Izak Smit | 14:20 | Smit, I. | Developing a remote sensing monitoring framework for the Kruger National Park | |
| | 14:35 | Knox, N | Grass tree layer separation in Remotely Sensed Images using Linear Spectral Unmixing | |
| | 14:50 | TEA | | |
| POSTERS | | | | |
| | 15:20 | Presentation Whyte, I.J. & Swanepoel, W. | An aerial census of the Limpopo Basin area of the Limpopo National Park in Mozambique 16th – 21st October, 2006 | |
| | | Anderson, J. | Large mammal migrations of the Greater Limpopo Transfrontier Park and their implications for management | |

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| Hendrik Sithole | | Lagendijk, G., Peel, M, Page, B., Prins, H., & Slotow, R. | The effects of browsing ungulates on woodland dynamics, with emphasis on elephants (<i>Loxodonta africana africana</i>) |
| | | Dziba, L. | The Grassland Society of Southern Africa (GSSA) |
| | | Henley, S., Henley, M. & McCay, M. | The influence of musth on the movement and range use patterns of elephant bulls. |
| | | Delsink, A. & Slotow, R. | Elephant movement patterns – a rationale for management zones? |
| Hendrik Sithole | | Buis, G., Knapp, A., Fynn, R. Govender, N. Collins, S. Blair, J & Smith, M. | Responses of Aboveground Net Primary Production to fire and grazing in Kruger National Park and Konza Prairie |
| | | Van den Berg, E & Coetzee, M. | The development of a tool to improve rangeland and degradation management within the semi-arid western rangelands of Southern Africa, using remote sensing and GIS |
| | | Henley, M.D | Size- and sex-related feeding distinctions among African elephants: differences in diet quality, use of plant species, parts and height classes. |
| | | Shrestha, A., Van Wieren, S., de Bie, S & Prins, H. | Living on the edge: In search of physiological and behavioural determinants of distribution boundary dynamics of South African ungulates |
| | | Havenga, M. Barton, J & Webb, S. | The Uses of Remote Sensing in Conservation: Examples from the Venetia-Limpopo Nature Reserve and the Eastern Portion of the Mapungubwe National Park, South Africa |
| | | Mwakiwa, E | Optimizing resource management actions by incorporating the spatio-temporal distributions of elephants |

| Tuesday 17 April 2007 | | | |
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| | Time | Delegate | Title |
| Terrestrial Patterns And Drivers | | | |
| Rina Grant | 8:00 | Verweij, R., February, E., Higgins, S. & Bond, W. | How dependant is tree growth on access to deep versus shallow soil water? |
| | 8:15 | Keretetse, M., February, E., Higgins, S. & Bond, W. | Changes in plant available nitrogen with changes in available water in a mesic savanna |
| | 8:30 | February, E., Jack, S., Britton, M., Higgins, S. & Bond, W. | Do trees acquire resources from different layers of the soil to grasses? |
| | 8:45 | Breman, E. | Long-term vegetation dynamics at the grassland-savanna ecotone, South Africa |
| | 9:00 | Wigley, B.J., Bond, W.J & Hoffman, M.T | Investigating bush encroachment under different land use practices in a mesic South African savanna |
| | 9:15 | Staver, A.C. February, E.C & Bond, W.J. | Continuous vs. episodic recruitment in Acacia in Hluhluwe iMfolozi Park: implications for understanding savanna structure and dynamics |
| | 9:30 | Masubelele, M.L, & Bond, W.J | Productivity, Photodegradation and Carryover among Mesic and Semi-arid Grasslands |
| | 9:45 | Levick, S.R. & Rogers, K.H. | Multi-scaled and spatially explicit modelling of future vegetation patterns to aid the adaptive management process |
| | 10:00 | van der Waal, C | Fertilization of mopane veld: short-term herbaceous layer responses |
| 10:15 | TEA | | |
| TERRESTRIAL PATTERNS AND DRIVERS | | | |
| Angela Gaylard | 10:30 | Tambling, C. J., Getz, W. M, Cameron, E. & du Toit, J. T. | Characteristics of lion predation on buffalo in the central region of the Kruger National Park |
| | 10:45 | Khomo, L.M., Hartshorn, T.S., Chadwick, O.A. & Rogers, K.H. | Slow erosion and fast chemical weathering on Kruger granites |
| | 11:00 | Hunt, L | Challenges in altering the spatial distribution of grazing – some lessons from pastoral research in northern Australia |
| | 11:15 | Discussion | |
| | Forage Quality | | |
| Angela Gaylard | 11:30 | Macandza, V & Owen-Smith, N | Diet separation between low-density and high-density grazers: sable antelope, zebra and buffalo |
| | 11:40 | Le Roux, E., Owen-Smith, N. & Grant, R. | Habitat and forage dependency of sable antelope (<i>Hippotragus niger</i>) in the Pretoriuskop region of the Kruger National Park |
| | 11:50 | Codron, D., Codron, J., Lee-Thorp, J.A., Sponheimer, M., Grant, R, & Brink, J.S | Variability in herbivore feeding ecology and the decline of roan antelope (<i>Hippotragus equinus</i>) in Kruger National Park, South Africa |
| | 12:00 | Chirima, J. & Owen-Smith, N. | Predation risk exerts primary control over the distribution of low density antelope species |

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| | 12:20 | Kos, M. A., Hoetmer, J., Pretorius, Y., de Boer, W.F., De Knegt, H., Grant, R., Kohi, E., Page, B., Peel, M., Slotow, R., van der Waal, C., van Langevelde, F., van Wieren, S.E & Prins, H.H.T. | Seasonal diet switch in elephant and impala in a Mopane woodland |
| | 12:30 | Ferreira, S., Young, K. & van Aarde, R. | Demographic responses of elephants to resource selection and management in the Kruger National Park |
| | 13:00 | LUNCH | |
| | | FORAGE QUALITY | |
| Angela Gaylard | 14:00 | Skidmore, A.K., Ferwerda, J., Mutanga, O., Van Wieren, S.E., Peel, M., Grant, R., Prins, H.H.T., Knox, N. & Schlerf, M. | Plant biochemical maps of forage quality |
| | 14:15 | Treydte, A.C., Heitkönig, I.M.A., Prins, H.H.T. & Ludwig, F. | Do trees really matter? Insights into sub-canopy grass quality in African savannas |
| | 14:30 | Pretorius, Y | Soil nutrients and large herbivore forage patch choice |
| | 14:45 | Discussion | |
| | 15:00 | TEA | |
| | | GENERAL | |
| Thembi Khoza | 15:30 | Eber, S | Zoning the Kruger National Park: The 80 year blue sky scenario |
| | 15:40 | Foxcroft, L.C., Smit, I., Kruger, J.M. & Webb, S.C | KOEDOE: past, present and future |
| | 15:50 | van der Bank, M., Lahaye, R., Maurin, O., duthoit, S. & Savolainen, V. | DNA Barcoding of the Flora of the Kruger National Park |
| | 16:00 | Ekblom, A., Gillson, L., & Chidoub, Z. | The use of Diatoms for long term rainfall reconstructions and vegetation dynamics, Mapimbi, Northern Kruger Park |
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| Wednesday 18 April 2007 | | | |
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| Time | Delegate | Title | |
| | | Examining Kruger As A Heterogenous River System | |
| 8:00 | Rogers, K.H. | More ramblings of a river ecologist: A challenge to "terrestrial" ecologists | |
| 8:15 | Cullum, C | The spatial organisation of savanna landscapes within drainage networks | |
| 8:30 | Tye, N., Kotschy, K. A. & Rogers, K. H. | Conserving biodiversity: from buzzwords to a basis for management | |
| Llewellyn Foxcroft 8:45 | Barichievy, C & Rogers, K. H. | Deep structure analysis: Understanding scale in landscape ecology | |
| | Hartshorn, T., Chadwick, O., Khomo, L, Rogers, K.H & Heimsath, A | 8:55 How chemical erosion sculpts savannas | |
| | | Water In The Landscape: Patterns And Processes | |
| Thomas Gyedu-Ababio 9:05 | Farmer, H., Witkowski, E.T.F. & Peel, M.J.S. | Management objectives and artificial water provision in the Greater Limpopo Transfrontier Park | |
| 9:20 | Cain III, J.W & Owen-Smith, N. | Water Dependency and Movements of Sable Antelope | |
| 9:35 | Lorentz, S., Riddell, E. & Koning, B. | Hydrological Lessons Learned from the Sabie and Letaba Exclosure Transects | |
| 9:50 | McLoughlin, C.A., Parsons, M., Kotschy, K., & Rogers, K.H. | Recruitment of riparian vegetation in the Sabie River in response to vertical template heterogeneity following a large infrequent flood disturbance | |
| 10:05 | | TEA | |
| | | WATER IN THE LANDSCAPE: PATTERNS AND PROCESSES | |
| 10:30 | Deacon, A.R | A synopsis of freshwater fish surveys in the Kruger National Park: 1958-2006 | |
| 10:45 | Griscom, H.R., Gyedu-Ababio, T. & Miller, S.N. | Revealing the Impacts of Dams and Land Cover Change on Luvuvhu River Baseflows Using Hydrologic Modelling, Remote Sensing, and Discharge Records | |
| 11:00 | Discussion | | |
| | | BROWSE AND BROWSERS | |
| 11:15 | Scogings, P.F., Rooke, T., Dziba, L.E., Hattas, D., Eckhardt, H., Skarpe, C., Zobolo, A. & Hjältén, J. | Variations in N, fibre and phenols of trees in relation to resources and browsing at the Nkuhlu Exclosures, Kruger National Park: 2005/2006 | |
| Ian Whyte 11:30 | Shaw, J. A. & Owen-Smith, N. | Diet selection and browsing impact in a re-introduced black rhino population. | |
| 11:45 | Codron, J., Lee-Thorp, J., Sponheimer, M., Codron, D., de Ruiter, D., Grant, R. & Melice, J-L. | 20th century changes in grass and browse consumption by Kruger's elephants | |
| 12:00 | Scogings, P.F. | Responses of woody species to browsing ruminants in savannas: what do we know after 35 years of research in Africa | |
| 12:15 | Matchett, K | Recovery, resilience and stability in piosphere systems in the Kruger National Park | |
| 12:30 | | LUNCH | |
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| | | AFTERNOON FREE TIME | |
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| Thursday 19 April 2007 | | | |
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| | Time | Delegate | Title |
| | | Humans In Complex Systems | |
| Ayanda Sigwela | 8:00 | Foxcroft, L.C. & Rejmanek, M | What helps <i>Opuntia stricta</i> invade the Kruger National Park, South Africa: Baboons or elephants? |
| | 8:15 | Harris, K.R., Van Rensburg, B.J., Robertson, M.P. & Coetzee, J.A. | Assessing local scale impacts of <i>Opuntia stricta</i> (Cactaceae) invasion on Arthropod assemblages in the Kruger National Park, South Africa |
| | 8:30 | Morris, T.L., Witkowski, E.T.F., & Coetzee, J.A. | Invasive alien plant clearing by Working for Water along the Sabie River, KNP. |
| | 8:45 | Mphuthi, R.K., Wepener, V. & Gyedu-Ababio, T.K. | The occurrence of heavy metals in <i>Labeobarbus marequensis</i> , water and sediments in the Crocodile river |
| | 9:00 | Barker, J., Wepener, V. & Gyedu-Ababio, T. | Status of Chemical Contaminants in three major rivers flowing through the Kruger National Park |
| | 9:15 | Vermeulen, W. & Geldenhuys, C.J. | Sustainable harvesting of medicinal bark: Experimental research and formulation of harvest prescriptions |
| | 9:30 | Heitkönig, I.M.A., & McCrindle, C. | Land use at the wildlife – livestock interface: consequences for the Greater Limpopo Transfrontier Park |
| | 9:45 | Coetzee, M. & Jordaan, F.P. | The effect of different land-use practices on rangeland condition, herbaceous and seed bank composition – implications for land degradation and biodiversity management in semi-arid western rangelands of Southern Africa |
| | 10:00 | TEA | |
| | | HUMANS IN COMPLEX SYSTEMS | |
| | 10:45 | Laurance, W.F | Impacts of Roads and Hunting on Central-African Mammals |
| | 11:00 | Discussion | |
| | 11:15 | Slotow, R. | Modelling TPC's for KNP elephants: A scientific framework for elephant management decision-making |
| | | Adaptive Management And Implementation | |
| | 11:30 | Prins, H.H.T | Thresholds of Potential Concern can unnecessarily suppress ecosystem dynamics |
| | 11:45 | Swemmer, T., Stevens, N | Beyond the western boundary - an overview of environmental research in the lowveld region outside of the Kruger National Park. |
| | 12:00 | Kiker, G | Design and prototype development of an integrated catchment/river model for adaptive learning and ecosystem management on the Crocodile River system |
| | 12:15 | Beiffuss R., Zolho R., Stalmans M., & Anderson J. | Integrating research with adaptive management of Gorongosa National Park: Learning from the Kruger experience |
| | 12:30 | Stalmans, M., Beiffuss, R., Steinbruch, F. & Tinley, K. | Restoration of the Greater Gorongosa Ecosystem – a scaled approach towards vegetation monitoring as part of an adaptive management system |
| | 12:45 | LUNCH | |
| | | FIRE | |

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| Navashni Govender | 14:00 | Coetzee, C | Functional traits and grass species composition across the fire gradient |
| | 14:15 | Hanan, N. & Prihodko, L. | African savanna fires and nitrogen fertilization: functional and disfunctional relationships amongst the eutrophic and dystrophic savannas |
| | 14:30 | Trollope, W., Govender, N., Austin, C. & Held, A. | Savanna fire ignition research experiment (SavFIRE): effects of point vs perimeter ignitions on fire mosaics |
| | 14:45 | Mulqueeny, C | Spatial and Temporal Variation of the Fire Regime in Mkuzi Game Reserve, KwaZulu-Natal |
| | 15:00 | TEA | |
| Navashni Govender | 15:30 | Schutz, A.E.N., Cramer, M.D & Bond, W.J | When the growing gets burnt can the buried keep growing? Above and below ground recovery rates of <i>Acacia karroo</i> after fire |
| | 15:45 | Bond, W.J., Cook, G & Williams, R.J | What limits trees in savannas? The Australian puzzle |
| | 16:00 | Discussion | |
| | 19:00 | Skukuza Golf Club | Gala Dinner - Sponsored by Mellon Foundation |

| Friday 20 April 2007 | | | |
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| | Time | Delegate | Title |
| Doing Research In Kruger | | | |
| Michele Hofmeyr | 8:00 | Hofmeyr, M | Science Awareness |
| | 8:10 | Kruger , J.M | Research data and online searching |
| | 8:20 | MacFadyen, S. | Web page |
| | 8:30 | Owen-Smith,N & Mills,M.G.L | Switching prey selection by lions as revealed by animal carcass records |
| | ADDITIONAL ITEMS | | |
| Michele Hofmeyr | 8:45 | Gillson, L. | Untangling anthropogenic and climatic influence on riverine forest in the Kruger National Park, South Africa |
| | 9:00 | Bowers' J.A., Panagos, M & Reilly, B.K. | Scale-related habitat selection of African buffalo |
| | 9:15 | Schoon, M. | Building Robustness to Disturbance: Governance in Southern African Peace Parks |
| | 9:30 | Saah, D.S., Genova, R.C & Benning, T.L. | ArcCentury: A user-friendly management tool developed to assess spatial and functional heterogeneity in a South African savanna ecosystem |
| | DISEASE | | |
| | 9:45 | de Klerk Lorist, L. | What have we learnt from Bovine Tuberculosis research studies in the buffalo population of the Kruger Park? |
| | 10:00 | TEA | |
| DISEASE | | | |
| Lin-Mari de Klerk Lorist | 10:30 | Hoogeveen G. M., Michel A.L., Rutten V.P.M.G., & Godfroid, J. (presented by Prof. Kriek) | Potential value of a MPB70 iELISA for the control of <i>Mycobacterium bovis</i> infection in buffalo (<i>Syncerus caffer</i>) |
| | 10:45 | Godfroid J., Saegerman C., Govaerts M., Vanholme L., Fauville-Dufaux M., Letesson J., & Walravens K. (presented by Prof. Kriek) | New diagnostic and typing tools for <i>Mycobacterium bovis</i> control and eradication programmes: lessons to be learned from Belgium |
| | 11:00 | Matokazi, N.J | Effects of bovine tuberculosis and gastro-intestinal parasite infections on African buffalo (<i>Syncerus caffer</i>) activity budgets |
| | 11:15 | Jori, F., Brahmhatt, D., Kriek, N., Vosloo, W. & Gummow, B. | Development of a quantitative stochastic decision model for assessing the risks of animal diseases occurrence within the Transboundary Conservation Areas. |
| | 11:30 | Morar, D., Tijhaar, E., Negrea, A., Hendriks, J., van Haarlem, D., Godfroid, J., Michel, A.L & PMG Rutten, V (presented by Dr L de Klerk) | Cloning, sequencing and expression of white rhinoceros (<i>Ceratotherium simum</i>) Interferon-gamma (IFN-g) and the production of rhinoceros IFN-g specific antibodies |
| | 11:45 | Bond, W | Wrap up |
| | 12:25 | Kruger, J.M | Closure |