

**FINAL PROGRAMME
SOUTHERN AFRICAN LAND-ATMOSPHERE-BIOSPHERE
INTERACTIONS WORKSHOP
HELD JULY 11-18, 1998 AT BLYDEPOORT, MPUMALANGA, SOUTH AFRICA**

Monday July 13, 1998		
8:00 Registration		
9:00	SESSION 1	
	Welcome, Goals and Particulars of the Workshop	Harold Annegarn, Bob Swap and Paul Desanker
	Overview of Southern African Atmospheric Environment	Mike Garstang
	Overview of Vegetation Atmosphere Interaction in Southern African	Bob Scholes
10:30	Tea	
10:45	SESSION 2	
	Fire Emissions	Lackson Marufu
	Ecology of Fire in African Savannas	Peter Frost
	Land Use and Global Change	Paul Desanker
12:30	Lunch	
2:00	SESSION 3	
	SAFARI 2000: An Overview	Bob Swap
	Goals and Science behind NASA's EOS	Michael King
	NASA's Relationship to SAFARI 2000	Jeff Privette
	Preliminary Design of the SAFARI 2000 Science Plan	
4:30	Tea	
4:45	SESSION 4	
	Breakout sessions (three groups): Land Use Cover Change Atmosphere from Micro to Synoptic Scale Biosphere (Physiology / Biogeochemistry)	
6:00	Rapporteurs to meet with organizing committee	
6:30	Dinner	
8:00	SESSION 5 - POSTERS	
	Ice Breaker/Poster Session	
Tuesday July 14, 1998		

8:30	SESSION 6	
	Pyrogenic and Biogenic Non-Methane Hydrocarbon Emissions (25 min)	Bob Scholes
	Role of Microbial Processes in Regulating Trace Gas Emissions from Semi-Arid Ecosystems (25 min)	Iris Anderson
	NO and CH ₄ Emissions from Soils (25 min)	Luanne Otter
	SO ₂ , NO ₂ , O ₃ and NH ₄ Monitoring Using Passive Samplers (25 min)	Kobus Pienaar
10:30	Tea	
10:45	SESSION 7	
	Biomass Smoke and Its Atmospheric Effects (25 min)	Peter Hobbs
	Radiative Importance of Aerosol/Cloud Interaction (25 min)	Si-Chee Tsay
	Ground-based Remote Sensing of Aerosol Optical Properties – Adapting for SAFARI 2000 (25 min)	Brent Holben
	Measurement of Aerosol Optical Depth at Sutherland using Rotating Shadow-Band Photometry (25 min)	Harmut Winkler
12:30	Lunch	
2:00	SESSION 8	
	Regional Transportation of Biomass Burning and Anthropogenic Emissions (25 min)	Gerhard Held
	Aerosol Recirculation and Rainfall Experiment (ARREX): An Overview (25 min)	Stuart Piketh
	Cloud and Rainfall Characteristics (25 min)	Deon Terblanche
	A Satellite's View of Rainfall (25 min)	Dominic Kniveton
	Hydrological Overview (25 min)	Greg Kiker
4:30	Tea	
4:45	SESSION 9	
	Training Sessions: Proposal writing hints Sun Photometers Steaker Samplers	Peter Frost Brent Holben Stuart Piketh
6:30	Dinner	
	Evening Free	
Wednesday July 15, 1998		
8:30	SESSION 10	
	Satellite Burned Area Estimation and Validation (25 min)	David Roy
	LIA and FPAR (15 min)	Jeff Privette
	Transportation of Aerosols to a Near-Equatorial Site In East Africa (15min)	Charles Gatebe
	Smoke Characterization for Fires in Savannah Ecosystems (20 min)	Darold Ward

	Tracing Biogeochemical Processes through Natural Abundance Isotope Analysis (15 min)	Stephen Macko
	Alkyl Nitrates as a Tracer and Indicator of Aerosol Source and Age (15 min)	Callum Anderson
	Modeling of Sulphur Dry Deposition (15 min)	Mark Zunckel
10:30	Tea	
10:45	SESSION 11	
	A Review of Land-Atmosphere Interactions in Southern Africa (20 min)	Mark Jury
	Vegetation Response to ENSO over Southern Africa (20 min)	Assaf Anyambe
	Soils Vegetation Atmosphere Models – An Overview (25 min)	Andrew Friend
	Scale Interaction in Savannah Ecosystems in Modeling Approach (25 min)	Hank Shugart
	Ecological Modeling of the Miombo (20 min)	Paul Desanker
12:30	Lunch	
	Regional site seeing tours. Arrangements to be made on site.	
6:30	Dinner	
	Evening free	
Thursday July 16, 1998		
8:30	SESSION 12	
	Data Issues (20 min)	Tim Suttles, Harold Annegarn, Bob Scholes
	Presentation of Strawman Science Plan for SAFARI 2000 (20 min)	Bob Swap
	Discussion of Science Elements (20 min)	
	SAVE-EOS - Brief Description of Project Sites (20 min)	Jeff Privette
	Aircraft participation, plans, needs: RSA (15 min) University of Washington's Convair Aircraft and Its Uses in SAFARI-2000 (15 min)	Deon Terblanche / Harold Annegarn Peter Hobbs
10:30	Tea	
11:00	SESSION 13	
	Brief description of national and regional projects and discussion of national, regional and international links:	
	Miombo Network / Miombo Land Cover and Land Use Cover Change	Paul Desanker / Peter Frost
	Kalahari Transect - Description of Activities	Susan Ringrose / Bob Scholes / Hank

		Shugart
	IPCC Activities / Joint Implementation	Paul Desanker
	Expected SUNSAT 1 Micro Satellite Imaging Output	Ben Opperman / Mathys Cronje
	Other speakers welcome to present and are asked to speak to organizers for inclusion on program	
	Charge to breakout groups, which will meet after lunch.	
12:30	Lunch	
2:00	SESSION 14	
	Breakout groups to meet: Land / Atmosphere / Biosphere [and other groups as necessary] Objectives of this session: 1. Identify outstanding questions and scientific issues to be addressed by SAFARI 2000. 2. Identify groups/institutions/alliances/individuals that will submit proposals to address these questions under the SAFARI 2000 umbrella.	
4:00	Tea	
4:15	SESSION 15	
	1: Continued instrument and computer training sessions or 2: Aircraft groups meet – SAFARI 2000 flight plans	
6:30	Dinner	
	Rapporteurs to meet after dinner	
Friday July 17, 1998		
8:30	SESSION 16	
	SAFARI 2000 Scheduling Priorities Next Steps Discussion of production of Workshop Report/Science Plan	
10:30	Tea	
11:00	SESSION 17	
	Conclusion: Final discussion of SAFARI 2000 Science Plan	
12:00	Formal closure of workshop	
12:30	Lunch	
	Departure of some delegates for Johannesburg and home; or	

	Informal discussions to continue fleshing out draft proposals and details of science plan	
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