Wednesday, 17 July 2002

Session VI  
**GNSS Applications to Promote Sustainable Development: Applications in Air and Land Transportation**  
Chairperson: G. Solari (European Space Agency)

14:00 – 14:30  
GNSS for air navigation: US FAA plans and progress  
N. Graham (USA)

14:30 – 15:00  
IATA’s GNSS initiatives in Africa  
J. Valiquette (Canada)

15:00 – 15:30  
Point positioning of navigation beacons at international airports in Zambia  
L. Chunga (Zambia)

15:30 – 16:00  
ICAO programmes in Africa  
ICAO invited

16:00 – 16:30  
Coffee/Tea Break

16:30 – 17:00  
GNSS applications for land transportation: “Automatic Vehicle Location systems”  
W. Molla (Saudi Arabia)

17:00 – 17:30  
Satellite navigation and positioning systems in Morocco  
L. Rasmy (Morocco)

Thursday, 18 July 2002

Session VII  
**Education and training in the use and applications of GNSS technologies**  
Chairperson: L. Combrick (South Africa) invited

9:00 - 9:30  
GNSS education and training in South Africa  
C. Merry (South Africa)

9:30 – 10:00  
Capacity building in education and training  
A. Bassole (Burkina Faso)

10:00 – 10:30  
Training of GPS Surveying at Kenya Institute of Surveying and Mapping (KISM)  
M. Kamamia (Kenya)

10:30 – 11:00  
Coffee/Tea break

11:00 – 11:30  
Progress of OMNITSAR HP trials in Southern Africa  
G. Smith (South Africa)

11:30 – 12:30  
Short Presentations by Participants

12:30 – 14:00  
Lunch

14:00 – 17:00  
Topical Discussion Groups

Friday, 19 July 2002

Session VIII  
**Wrap-Up Session: Recommendations and Follow-up Actions**  
Chairperson: J. Karner (USA)

9:00 – 11:00  
Reports by the Chairpersons  
Recommendations and Follow-up Actions

11:00 – 11:30  
Closing Ceremony and Closing Remarks

11:30  
GNSS for Earth science

10:30 – 11:00  
Adjourn

14:00 – 17:00  
Technical Tour
UN/USA WORKSHOP ON

Programme Committee:
United States Department of State: K. Hodgkins, J. Karner
Government of Zambia: P. Zambezi, N. Imbuwa
United Nations: S. Camacho, V. Kotelnikov, M. Gerard

Programme

Monday, 15 July 2002
08:00 – 10:00 Registration:
Mulungushi International Center
10:00 – 11:00 Opening ceremony:
Introductory remarks The Honourable A. M. Chambeshi,
MP, Zambia
Welcome address His Excellency L.P. Mwanawasa S.C.,
President of Zambia
Opening statements D. W. Mozema,
Charge d’Affaires, Embassy of the
United States to Zambia
M. Tabache,
International Affairs, European Space
Agency
V. Kotelnikov,
United Nations Office for Outer Space
Affairs
Background, objectives, format of the
Workshop
M. Gerard (USA)

Session I Existing and Future GNSS Systems and Their Applications
Chairperson: P. Zambezi, (Zambia)
11:00 – 11:30 Status and development of the Global
Positioning System
J. Karner (USA)
11:30 – 12:00 Status and development of Glonass
S. Revniyych (Russian Federation)
12:00 – 12:30 Status and development of Galileo
A. Landabaso (European Commission)
12:30 – 14:00 Lunch
14:00 – 14:30 Status and development of GPS augmentations
R. Hamilton (USA)
14:30 – 15:00 Status and development of EGNOS
G. Solari (European Space Agency)
15:00 – 15:30 GNSS strategic opportunities: Potential for
exploiting spatial technology and its impact on
economic diversification and emerging growth
sectors in Zambia
R. Moyo (Zambia)
15:30 – 16:00 Break
16:00 – 16:30 Overview of current and expected GNSS
applications
J. Karner (USA)
16:30 – 17:00 GPS information systems
H. Skalski (USA)
18:00 – 21:30 Cultural Evening

Tuesday, 16 July 2002

Session II GNSS Applications to Promote Sustainable Development:
Management of Natural Resources
Chairperson: S. Averin (Russian Federation) invited
09:00 – 09:30 Agricultural information systems using GNSS
M. Rasher (USA)
09:30 – 10:00 GNSS for mining and geology
F. Njamu (Zambia)
10:00 – 10:30 Using GNSS to manage mountain forest
resources in East Africa
C. Lambrechts (Kenya)
10:30 – 11:00 Coffee/Tea break

Session III GNSS Applications to Promote Sustainable Development:
Environmental Monitoring and Disaster Management
Chairperson: A. Bassole (Burkina Faso)
11:00 – 11:30 Preliminary report on geodetic measurements
M. Kamamia (Kenya)
in the Kenyan Rift Valley
11:30 – 12:00 Satellite communications for disaster warning
A. Leyrer (Austria)
and emergency services
12:00 – 12:30 Using GNSS technology for the monitoring of
C. Beech (South Africa)
parks and animal tracking
12:30 – 14:00 Lunch

Session IV GNSS Applications to Promote Sustainable Development:
Surveying, Mapping and Earth Sciences
Chairperson: K. Owolabi (Namibia)
14:00 – 14:30 Status of CODI and implications for SDI
C. Ezigbalike (Ethiopia)
geodetic developments in Africa
14:30 – 15:00 International GPS Service: Global GNSS
R. Neilan (USA)
framework
15:00 – 15:30 Progress status on the African Reference
M. Chodota (Kenya)
Frame (AFREF)
15:30 – 16:00 Coffee/Tea break
16:00 – 16:30 Plans for realizing SAREF – Reference frame
R. Wonnacott (South Africa)
in Southern Africa
16:30 – 17:00 Status of NAREF activities since 2000 –
M. Unis (Libya)
Reference frame in Northern Africa
17:00 – 17:30 International boundary surveys in Zambia:
D. Mubanga (Zambia)
Integrating regional spatial data infrastructure
using GPS technology

Wednesday, 17 July 2002

Session V GNSS Applications to Promote Sustainable Development:
Surveying, Mapping and Earth Sciences (Continued)
Chairperson: C. Ezigbalike (Ethiopia)
09:00 – 09:30 The IGS Station and its role in land delivery in
P. Nsombo (Zambia)
Zambia
09:30 – 10:00 GPS networks in Egypt
S. Mahmoud (Egypt)
10:00 – 10:30 GNSS for Earth science
T. Herring (USA)
10:30 – 11:00 The gravity connection to GNSS applications
C. Merry (South Africa)
11:00 – 11:30 Coffee/Tea break
11:30 – 12:30 Lunch
12:30 – 14:00 Topical Discussion Groups