Disaster Management Training and Education: Challenges.
Challenges for training the next generation

- Future specialists and scientist
- Challenge for graduate training (M and PhD) (SA)
  - Pre grad numbers increased but stagnation in post grad students
  - Discrepancy in salaries. Academy and research not attractive
- Disaster Management graduate training
  - Profile of disaster manager?
  - Multi disciplinary
  - Specialization?
  - Capacity to provide training
  - Need capacity amongst current officials (Cannot wait for next generation)
Alternative training options

- Short courses
  - Cannot replace graduate training
  - Money making industry
  - False sense of capacity amongst students
  - Certificate collection
  - Definitely can play a role in capacity building, provided....that its focused, evaluated, presented by experts themselves.

- Diplomas

- Learnerships
  - Must for young graduates

- Mentorship programs
  - Under utilised because mentors not equipped
Solution?
Case study of UFS-DiMTEC

They who don’t make mistakes probably never try........

Course developed and registered as a result of DM Act in SA (Act 57,2002)

Structured Masters with research component

Exit qualification after 1st year with Higher University Diploma

95% of students are practitioners

Representing Government, Municipalities, NGO’s, UN, Private sector

Lean and mean management structure (Efficient into personnel, funding, resources)
Main focus areas

# Education
# Masters degree
# Short courses

# Research
# Masters dissertations
# Disaster Early Warning Research Centre
  (http://dimtecrisk.ufs.ac.za)

# Community Service

# Consultancy
MASTERS DEGREE IN DISASTER MANAGEMENT

RESEARCH DISSERTATION

FIRST YEAR MASTERS WITH OPTION ADVANCED DIPLOMA

RESEARCH METHODOLOGY
HAZARDS AND DM.
STRATEGIC DISASTER MANAGEMENT
DM PRINCIPLES & PRACTICES

DISASTER RISK MANAGEMENT
INFORMATION TECHNOLOGY IN DI.
PUBLIC HEALTH
MANAGEMENT OF DISASTERS

3 Yr degree plus Hons. or
3 Yr degree plus experience

Recognition for Prior learning
Nr Masters students 2002 - 2010

- Applied
- Registered
- Total registered

UFS-DiMTEC footprint in Africa
Why the success?

# Multi disciplinary with focus on risk reduction
# High standards
# Strict discipline
# Expert lecturers
# E-learning/distance learning
# Needs based
# Graduates perform well in work place – word of mouth
# Disaster management prominent in media
# Needs based
## Short courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Duration</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>DMS 001</td>
<td>Sphere Project, Humanitarian Charter &amp; Min. Standards in disaster response.</td>
<td>3 – 5 days.</td>
<td>TBA</td>
</tr>
<tr>
<td>DMS 002</td>
<td>Overview: Disaster Management</td>
<td>2 – 3 days</td>
<td>TBA</td>
</tr>
<tr>
<td>DMS 003</td>
<td>Geographical information systems (GIS) for disaster risk management.</td>
<td>4 – 6 days</td>
<td>TBA</td>
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<tr>
<td>DMS 004</td>
<td>Political strategic planning</td>
<td>5 days</td>
<td>TBA</td>
</tr>
<tr>
<td>DMS 005</td>
<td>Disaster information and communication management</td>
<td>2 – 3 days</td>
<td>TBA</td>
</tr>
<tr>
<td>DMS 006</td>
<td>Project Management and Design</td>
<td>3 days</td>
<td>TBA</td>
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<tr>
<td>DMS 007</td>
<td>Public health and disaster management</td>
<td>3 days</td>
<td>TBA</td>
</tr>
<tr>
<td>DMS 008</td>
<td>Disaster Risk management, vulnerability and capacity assessment</td>
<td>3 – 5 days</td>
<td>TBA</td>
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<tr>
<td>DMS 009</td>
<td>Drought management and planning</td>
<td>3 days</td>
<td>TBA</td>
</tr>
<tr>
<td>DMS 010</td>
<td>Flood management</td>
<td>3 days</td>
<td>TBA</td>
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<tr>
<td>DMS 011</td>
<td>Psychosocial support</td>
<td>2 – 3 days</td>
<td>TBA</td>
</tr>
<tr>
<td>DMS 012</td>
<td>Conflict management and resolution</td>
<td>3 days</td>
<td>TBA</td>
</tr>
<tr>
<td>DMS 013</td>
<td>Disaster impact assessment</td>
<td>3 – 5 days</td>
<td>TBA</td>
</tr>
<tr>
<td>DMS 014</td>
<td>Research methods and techniques for disaster management.</td>
<td>4 days</td>
<td>TBA</td>
</tr>
</tbody>
</table>
Intl. Research Projects

- Swaziland
  - Drought
  - Terrorism
  - HIV/AIDS

- Zimbabwe
  - Drought
  - Floods
  - HIV/AIDS
  - Institutional arrangements
  - Humanitarian relief
  - Gender and droughts
  - Community vulnerability

- Zambia
  - Droughts
  - Business continuity

- Namibia
  - Food security

- Kenya
  - Community vulnerability
  - Food security

- Tanzania
  - Fire risks at schools
  - HIV/AIDS

- Mozambique
  - Floods

- Sudan
  - Early warning and food security

- Nigeria
  - IMPACT OF CULTURE ON HIV/AIDS
  - OIL SPILLS

- Lesotho
  - Snow
  - HIV/AIDS
## SA Research Projects

- Droughts
- Floods
- Risk assessments
- HIV/AIDS
- Community resilience
- Saving clubs
- Institutional arrangements
- Geo-spatial
- Stock theft
- Veld fires
- Settlement fires
- Early warning systems
- Conflict in Africa
- Food security
- Vulnerability assessments

- Disaster management planning
- Telephone banking as tool for community resilience
Collaborators

- UNU-EHS (MOU)
- UNU-ViE
- UN-SPIDER
- NDMC
- International Universities (Bonn, Minnesota, Zimbabwe, NUST, Brazzaville, Beira, Nairobi, Khartoum)
- NW University
- USAID
- CARE-Africa
- FETwater/Waternet
- SAC?
In conclusion

- Demand for graduate training in Africa is large
- Capacity to provide graduate training is limited
- Need specialist training
  - Remote sensing
  - Incident Command
  - Water related disaster management – hydrology, water quality, water management
- What is expected from the disaster manager??????
- Need guidelines for research topics from practitioners
- Funding for research
- Study leading
- Funding for international students
- Inputs in curriculum development

Recommendations:
- Linkages and collaborations
- Joint curricula/degrees between Universities
- Universities to be included in partnership agreements
- Utilization of potential at Universities
- Funding to centres of excellence
- Data availability
- Involvement of specialists
WINNERS NEVER BLAME FATE FOR THEIR FAILURES OR CREDIT LUCK FOR THEIR SUCCESS.

The revolutionary idea that defines the boundary between modern times and the past is that the future is more than an act of the gods and that men and women are not passive before nature.

(Peter L Bernstein; Against the Gods: The Remarkable Story of Risk)

Thank You!