

Emergency Management Higher Education Status Report

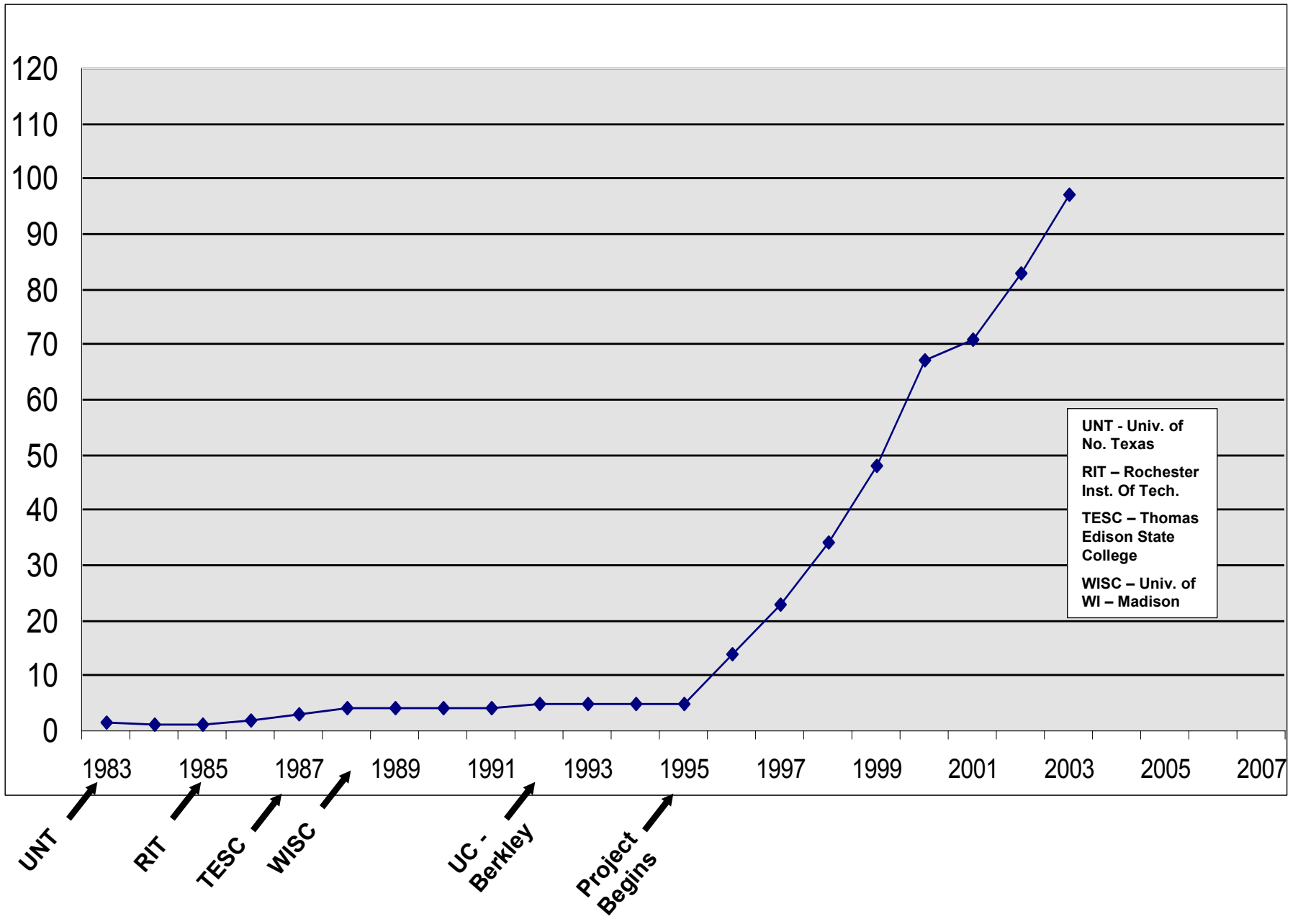


**National Academy of Sciences Disasters Roundtable
The Emergency Manager of the Future
June 13, 2003, National Academy of Sciences, Washington, DC
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<http://www.training.fema.gov/EMIWeb/edu>**

EM Higher Education Conference 2003 -- Participation

- **111 Participants – Largest Ever -For EM & HS**
- **79 Colleges and Universities Represented**
- **7 College Systems, Associations, Centers**
- **41 States Represented & District of Columbia**
- **3 Countries Represented**

Emergency Management College Programs by FY



Growth of Collegiate “Emergency Management” Programs

- June 2001 – 72
 - June 2002 – 78
 - June 2003 – 96
-
- 7 Doctoral Programs
 - 23 Masters Programs
 - 9 Bachelor Degrees
 - 15 Associate Degrees
 - 42 Certificates and Minors

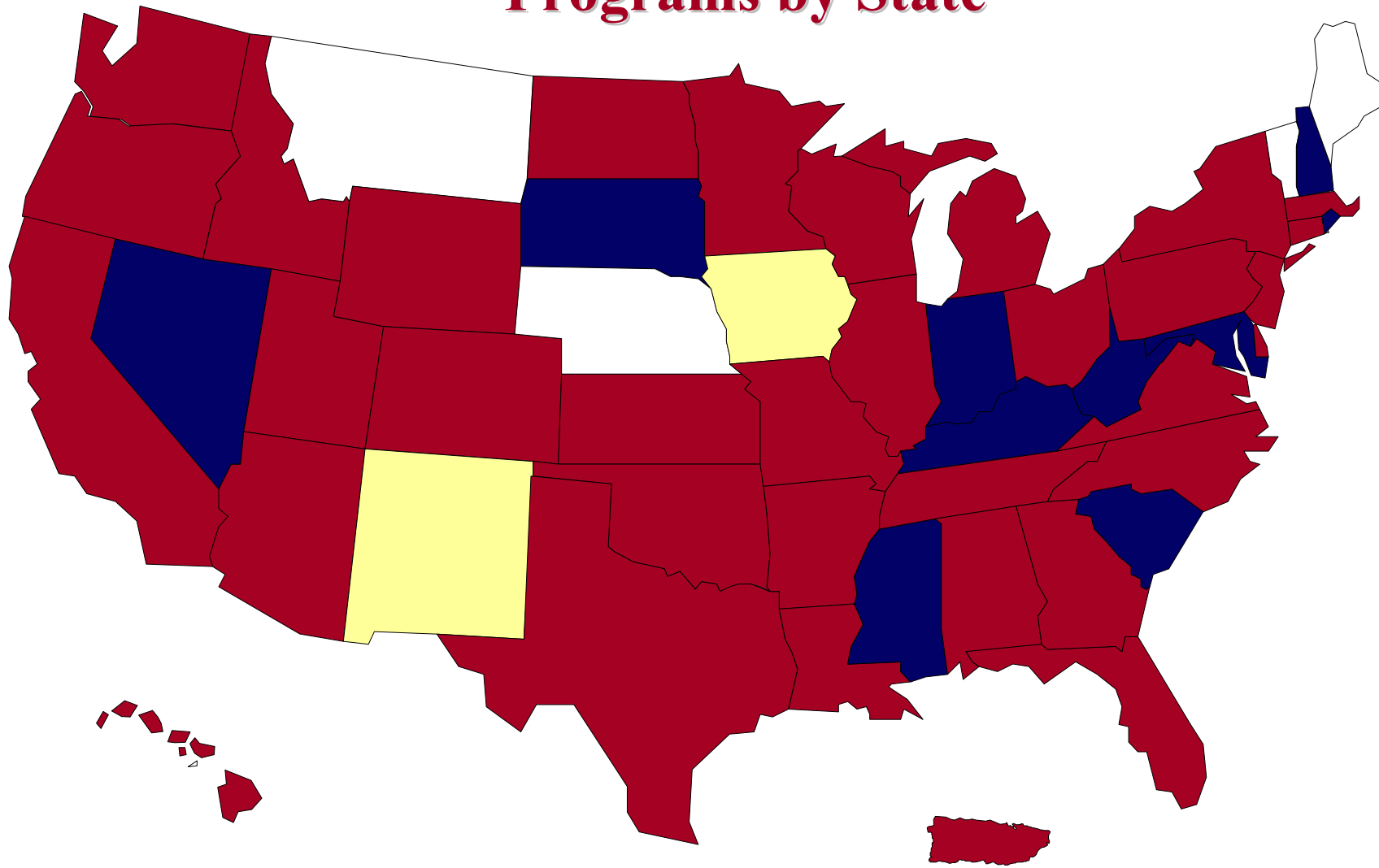
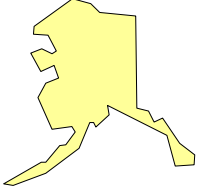
Growth of Collegiate EM Programs Between Conferences

- **20 Additional Programs**
- **2 Folded Programs**
 - Both were Emergency Mgmt. Certificates
- **Net Increase of 18 New Programs**
- **Average of 1 and 1/2 Per Month**
- **Several Others Lined-Up For Fall Roll-Out**


Projected Collegiate EM Program Growth

- **~ 100 Programs Under Investigation or Development:**
 - 32 at Associate Level**
 - 39 at Bachelor Level**
 - 27 at Graduate Level**
 - 1 Not Sure**

Map of US Showing Status of EM College Programs by State



Emer. Mgmt. Program in Place = 

Related Emer. Mgmt. Program = 

Proposed Emer. Mgmt. Program = 

No Program = 

State Map Break-Out

- **46 States Have EM or Related Programs or are Investigating or Developing One:**
 - **33 States Have Emergency Mgmt Programs**
 - DC & Puerto Rico Have Emergency Mgmt Programs as Well
 - **10 States Are Investigating EM Programs**
 - **3 States Have EM-Related Programs**
 - **4 States Have No EM or Related Program**
 - (Maine, Montana, Nebraska, Vermont)

Homeland Security Higher Education Programs

- **15 Homeland Security/Terrorism Programs**
 - 4 Graduate-Level
 - 2 Bachelors-Level
 - 2 Associate-Level
 - 7 Continuing Education Unit-Level
- **10 HS Programs Being Developed**
 - 7 Graduate-Level
 - 1 Bachelors-Level
 - 2 CEU-Level

International Disaster Management and Humanitarian Assistance Higher Education Programs

■ 8 Collegiate Programs

- Andrews University, Michigan
- Johns Hopkins University
- Harvard School of Public Health & MIT
- Tufts University
- Tulane University
- University of South Florida, Tampa
- University of Wisconsin

Summary of Programs

IN-PLACE:

- **96 Emergency Management Programs**
- **15 Homeland Security/Terrorism Programs**
- **8 International Disaster Management Programs**

UNDER INVESTIGATION OR DEVELOPMENT:

- **~ 100 Emergency Management Programs**
- **10 Homeland Security Programs**

Programs Growing In Size As Well As Numbers

- The Crisis and Disaster Management Program has steadily grown – to the point that it is now the 2nd largest in the home department. (Dianna Havner Bryant, CMSU, April 2003)
- The MPA EM Concentration program was overwhelmed this year – had to turn students away – more in queue for next semester. (Bill Waugh, GSU, April 2003)

Programs Growing In Size As Well As Numbers

- EAM program going very well – 70 of 74 graduates landed EM-relevant jobs- \$38 to \$42K range. (Mary Ann Rollans, ATU, March 2003)
- JSU is averaging 30 new graduate EM students per semester. (Brenda Phillips, Feb. 2003)
- EM Certificate going so well we're adding an AD. (Don Beckering, Hennipin TC, March 2003)

HiEd Courses Developed

- Building Disaster Resilient Communities
- Business and Industry Crisis Management
- Hazards Mitigation Principles and Practice
- Individual and Community Disaster Education
- Political and Policy Basis of Emergency Management
- Public Administration and Emergency Management
- Research & Analysis Methods in Emergency Management
- Social Dimensions of Disaster
- Social Vulnerability Approach to Emergency Management
- Sociology of Disaster
- Technology and Emergency Management
- Terrorism and Emergency Management
- Tourism, Travel, Hospitality Mgmt. EM Implications

HiEd Projects Under Development

- Coastal Hazards Management (Graduate)
- Disaster Response Operations & Management
- Earthquake Hazard Management
- Hazards Risk Management
- New Directions in Hazards Mitigation (Graduate)
- Sustainable and Holistic Disaster Recovery
- Theory, Principles and Fundamentals of Hazards, Disasters and Emergency Management
- Introduction To Emer. Mgmt. Electronic Textbook

Course Development Contracts for FY 2003 -- Pending

- **Hazards Mapping and Modeling**
- **Homeland Security and Terrorism**
- **Introduction to Floodplain Management
(Graduate Course)**

FY 2004 Course Development Options

- **Hazards Risk Communication**
- **Legal and Ethical Issues in Emergency Mgmt.**
- **Mitigation Loss Reduction Methods of Analysis**
- **Mitigation Planning**
- **Natural Hazards Engineering for Non-Engineers**
- **Politics of Disaster**

Partnerships

- **North Carolina Division of Emer. Mgmt.**
- **Coastal Services Center (DOC/NOAA)**
- **U.S. Army Corps of Engineers (EM Div.)**
- **Public Entity Risk Institute**
- **National Science Foundation**
- **Association of Floodplain Managers**
- **Colleges and Universities -- Interns**

EM Key Attributes/Elements

“The Way It Ought To Be”

■ Elements:

- **Comprehensive Emergency Mgmt. (All Hazards)**
- **All Four Phases – Not Primarily Response**
- **Integrated Emergency Management**

■ Attributes:

- **Full-Time Paid Professional Executive Manager**
- **Facilitator, Networker, Advisor, Partner**
- **Broad Scientific and Technical Knowledge Base**
- **Life-Long Learner**
- **EM Professionals More Reflective of US Pop.**
- **Makes Persuasive Articulate Case for Disaster Reduction**

21st Century EM Core Competencies

- **Interpersonal Skills**
 - Communication and Presentation Skills
 - Networking, Partnering, Negotiating
 - Marketing
 - Bureaucratic, Organizational, Political KSAs
- **Management Skills and Principles**
 - People, Programs, Money, Resources
 - Problem Solving, Critical Thinking, Decision-Making, Flexibility, Planning

21st Century EM Core Competencies (Continued)

- Theory, Principles, and Fundamentals of Hazards, Disasters, and Emer/Risk Mgmt.
 - What are Hazards, Disasters & Related Terms
 - Hazard Taxonomies, Categorization Schemes
 - Theories of Disaster
 - Hazards Foundation
 - Exposure, Risk, Vulnerability Trends, Explanations
 - History of Emergency Management
 - EM Scope, Models, Functions
 - Four Phases, CEM, IEMS, Top-Down/Bottom-Up
 - Roles/Responsibilities of Key Players
 - Sustainable Development, Urban Planning & BDRC

21st Century EM Core Competencies (Continued)

- Tools of the Trade
 - Understanding Legal, Ethical, Social, Economic, Ecological Dimensions of Disaster and Emergency Management
 - Technological Tools, e.g. computers, software, GIS, mapping and modeling
 - Research, Analysis, Evaluation Tools and Methods

Future EM Professional Development Issues

- Risk-Based Emergency Mgmt. Foundation
- Building Disaster Resilient Communities Focus
 - Social Vulnerability Reduction Emphasis
- Recognition
- Resistance to Change
- Homeland Security Pull
 - Emergency Services Orientation (1st Responders)
 - Security and Public Safety Focus

Importance of Education

- “...Although knowledge does not guarantee power over natural catastrophe, it is a prime requisite of disaster prevention.”
(Dr. David Alexander, Univ. of Massachusetts, 2000)
- “Human History becomes more and more a race between education and catastrophe.”
(H.G. Wells)