

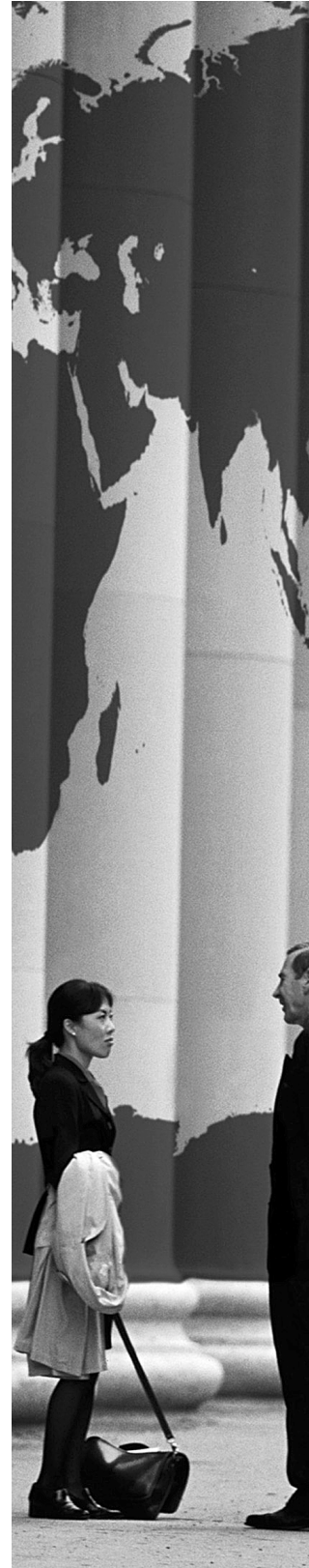
*NEW workshop for organizations
involved in emergency management...*

Fundamentals of Disaster Communications

A Practical “How-to” Workshop

- Explore terrestrial and satellite telecom
- Learn more about field power systems
- Improve your local emergency communications

May 7–9, 2002
Madison, Wisconsin



Fundamentals of Disaster Communications

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May 7–9, 2002, in Madison, Wisconsin

Develop Skills You Can Count On

This new workshop will provide the basic knowledge and skills you need to set up and effectively manage an emergency communications system for any international disaster or humanitarian emergency. Non-technical disaster management professionals will learn the basics of field communications. At the same time, experienced communications professionals will benefit as they develop practical disaster communications field skills and learn to use their technical expertise for improved humanitarian assistance.

Focus on Cost-effective Solutions

The workshop will introduce the theory and practice of administering ad hoc field communications networks of the type common in today's humanitarian operations around the world. The emphasis will be on third world implementation, but your learning will also apply to emergency communications in the developed world. The course will mix theoretical information with case studies drawn from current problems and will provide hands-on experience in troubleshooting hardware used in the field today.

Your learning will include the theory and practice of...


- Power systems
- VHF radio networks
- HF radio networks
- Satellite terminals
- E-mail and Internet connections for the deep field
- Administration, planning and costing of typical networks

Hand-on Opportunities

You will participate in practical field activities as part of the learning process so please come prepared for outdoor activities and moderate exercise. There may also be optional evening site visits to emergency communication centers.

For More Course Descriptions

<http://epdweb.engr.wisc.edu/courses/>



Who Should Attend

This workshop is designed for career international humanitarian fieldworkers, program or project officers, or anyone interested in a better understanding of disaster communications. Individuals from United Nations agencies, international NGOs and national NGOs; and planners and executive officers of organizations responding to international humanitarian needs will benefit by attending. Disaster professionals with little experience in communications will learn the basics. Communications professionals with limited disaster field experience will learn to apply their technical skills more effectively in international humanitarian assistance.

You will learn from exposure to disaster communications technology, from the presentations and exercises, and from the experiences and viewpoints of colleagues attending this workshop. The University of Wisconsin–DMC promises an intriguing, highly interactive workshop supported by state-of-the-art learning environment and materials.

You Will Learn About...

- Getting the most from your phone system, fax, telex and mobile phones
- Operating VHF simplex radios, including network creation, protocols, trafficking messages, duplex repeaters, CTCSS, SELCALL phonepatch and wide area trunked radio networks
- Planning and propagation for HF radio systems, as well as setup, operation, administration, programming, working to coast stations and automatic link establishment networking
- Ad hoc networking and interworking, arranging trafficking of messages between and across networks, leveraging local knowledge, official telecom coordinators, ham radio, and more
- Satcomms, encompassing satphones, INMARSAT, Motient, Aces, Thuria, Globalstar, Iridium, ICO and covering high-speed data, new pay-per-megabyte services and fax over satphones
- Practical approaches to e-mail, such as POP account handling, e-mail etiquette, managing attachments, HF and packet networks

In addition to all these technical elements, you will also cover management and administration issues, including using prices and tariffs to determine a realistic budget, managing licenses, and meeting other legal requirements.

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Learn with Internationally Recognized Practitioners

Gary Garriott

Volunteers in Technical Assistance
Arlington, Virginia

Jeffrey Klenk

InterWorks
Madison, Wisconsin

Mark Wood

Mobile Telecom Systems
Ericsson Technical Training Centre
Stockholm, Sweden

And others...

Take Home Useful Reference Materials

You will receive a comprehensive notebook summarizing the workshop content, but you should expect to augment that with your own active participation and notetaking. The workshop will be based on one primary text, *Disaster Communications*, by Mark Wood. In addition to this text you will receive supplemental study and workshop materials.

Course Registration and Daily Schedule

This course will be held at The Pyle Center, one of our lakeside conference centers on the campus of the University of Wisconsin-Madison. Registration will be at 8:00 am on Tuesday, May 7. General workshop sessions will run from 8:30 am to 5:00 pm, Tuesday through Thursday. Refreshments will be available at the start of each day and for mid-morning and mid-afternoon breaks. Lunches will be served daily at noon.

Workshop Outline and Highlights

Tuesday, May 7

8:00 Registration

8:30 Welcome and Overview

Morning Sessions

Field Power Systems 1

- Batteries
- Power supply systems
- **Field Exercise:** Establishing communications

Field Power Systems 2

- Generators
- Alternative energy systems
- **Field Exercise:** Setting up power systems

Afternoon Sessions

Terrestrial Systems 1

- VHF radio networks
- Planning and network design
- Base stations/relay stations
- **Field Exercise:** Troubleshooting

Local Communications 1

- Emergency antennas
- Repeater operations
- Continuous Tone Controlled Squelch System (CTCSS)
- **Field Exercise:** Antennas and repeaters

Wednesday, May 8

Morning Session

Terrestrial Systems 2

- HF radio networks
- Selective calling (SELCALL)
- Gateway services
- Amateur radio
- **Field Exercise:** Setting up HF installations

Afternoon Sessions

Local Communications 2

- Field telephones, intercoms and PBX
- Walkie-talkies
- Pages and others
- **Field Exercise:** Setting up a PBX

Satellite Systems

- Satphones
- INMARSAT
- Motient, IRIDIUM, V-sat
- Low-earth-orbit (LEO) systems
- Others
- **Field Exercise:** Practical problems and pitfalls

Thursday, May 9

Morning Session

Local Communications 3

- Managing e-mail and Internet in the field
- POP accounts
- X25 and HF radio mailboxes
- **Field Exercise:** Install a packet radio system

Management and Administration

- Prices, tariffs and licenses
- ITU, WGET, Tampere
- Ad hoc networking and interworking
- **Field Exercise:** Prepare an implementation plan

Afternoon Sessions

Field Case Studies

Summary and Evaluation

5:00 Final Adjournment

Course Credits

Upon successful completion of the three-day workshop, you will earn 2.0 Continuing Education Units (CEUs). These credits can be applied toward the Disaster Management Diploma from the University of Wisconsin-Disaster Management Center (UW-DMC).

Four Easy Ways to Enroll!



Phone:
800-462-0876 or
608-262-1299 (TDD 265-2370)



Fax:
800-442-4214 or
608-265-3448



Mail to:
Engineering Registration, Dept. 108
The Pyle Center
702 Langdon Street
Madison, Wisconsin 53706



Internet:
[http://epdweb.engr.wisc.edu/
brochures/A457.html](http://epdweb.engr.wisc.edu/brochures/A457.html)

Maximize Your Training Dollars!

Our instructors can travel to you and deliver *Fundamentals of Disaster Communications* at your worksite. We can also design and deliver complete training programs tailored to your special organizational needs. If you'd like more information about on-site course delivery, please call UW-DMC Director Don Schramm, toll free 800-462-0876 or direct at 608-263-7757 or e-mail dmc@engr.wisc.edu.

Your Visit to Madison, Wisconsin

Located on the shores of Lake Mendota, the University of Wisconsin-Madison campus features a park-like setting of more than 1,000 acres. Fine hotels and restaurants are within walking distance to the campus, where our continuing education conference center is located. Hotel rooms are typically available for \$50-\$80 per night. You can enjoy a fine meal for \$15 or less. And during your visit to Madison you can enjoy some of the city's renowned recreational, cultural, and historical attractions, including the State Capitol and the Monona Terrace, designed by Frank Lloyd Wright.

Need to Know More?

Call toll-free 800-462-0876 or 608-262-2061

Program Director: Don Schramm

Program Assistant: Diane Lange

Or e-mail custserv@epd.engr.wisc.edu

General Information

Fee Covers Notebook, textbook workshop materials, break refreshments, lunches and certificate.

Cancellation We prefer enrollment in advance. If you cannot attend, please notify us immediately. We will refund your fee, or you can have someone take your place.

Location The Pyle Center, 702 Langdon Street, Madison, Wisconsin. If you must be contacted during the course, phone messages may be left for you at 608-262-1122.

Accommodations Your enrollment confirmation will include local hotel/motel information. Or visit our Web site for lodging information: <http://epdweb.engr.wisc.edu/visit>

Enrollment Form

Important – please enter the 3-digit UW# Code from the mailing label.

UW#

Please advise us at time of enrollment if you are a person with a disability and desire special accommodations. Requests will be kept confidential.

Course Information

- Please enroll me in **#A457 Fundamentals of Disaster Communications**
May 7-9, 2002, in Madison, Wisconsin Fee: \$995 (2.0 CEU)
SPECIAL NOTE: Reduced fee for additional enrollment from one organization is \$895
For larger group discounts, contact us for details.
- I cannot attend at this time, please send me information on future courses.

Personal Information

Please type or use ink; print information as you'd like it on your record.

Name _____

Title _____

Company _____

Address _____

City/State/Zip _____

Phone (_____) _____ Fax (_____) _____

E-mail _____

Billing Information

- Bill my company P.O. or check enclosed (Payable in U.S. funds to UW-Madison)



Cardholder's Name _____

Card No. _____ Expires _____

Please send information about future courses to:

Name _____

Title/Company _____

Address _____

City/State/Zip _____

Voluntary information collected to enhance UW programming

Female Male

Birthdate: Month _____ Day _____ Year _____

Heritage: African American 1
 Asian/Pacific Islander 2
 American Indian/Alaskan Native 3
 Hispanic/Latino 4
 White/Other 5

Occupational Area: Engineering, Architecture & Surveying 3
 Other 13

Are you enrolled in this program primarily for career purposes?
 Yes No

UW-Madison provides equal opportunities in employment and programming, including Title IX requirements. This course is supported in part by funds administered through UW-Extension.

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