# FIELD TEAM MEMBER WORKSHOP

September 14, 1986

Course Outline

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Presenter(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>09:30-09:40</td>
<td><strong>INTRODUCTION</strong></td>
<td></td>
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<tr>
<td>09:40-09:50</td>
<td><strong>PRE-SEARCH SKILLS</strong></td>
<td>Bob Koester</td>
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<tr>
<td>09:50-10:35</td>
<td>Legal issues</td>
<td>Bob Koester</td>
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<tr>
<td>10:35-10:40</td>
<td>Personal equipment</td>
<td>Chris Metzler</td>
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<tr>
<td>10:40-10:50</td>
<td>Conference Alerting</td>
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<tr>
<td>10:50-11:05</td>
<td>Break</td>
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**SEARCH SKILLS (classroom)**

<table>
<thead>
<tr>
<th>Time</th>
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</thead>
<tbody>
<tr>
<td>10:50-11:05</td>
<td>Professionalism</td>
<td>Bob Koester</td>
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<tr>
<td>11:05-11:45</td>
<td>SAR Operations</td>
<td>Bob Koester</td>
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<tr>
<td>11:45-12:35</td>
<td>Survival &amp; First Aid</td>
<td>Bill Mackreth</td>
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<td>12:35-12:45</td>
<td>Break</td>
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<tr>
<td>12:45-13:05</td>
<td>Land Navigation</td>
<td>Brian Wheeler</td>
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<tr>
<td>13:05-13:25</td>
<td>Communications/Signalling</td>
<td>Kevin Coyne</td>
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<tr>
<td>13:25-13:35</td>
<td>Tracking</td>
<td>Ted Dettmar</td>
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<tbody>
<tr>
<td>13:35-14:45</td>
<td>Lunch</td>
<td>Contract crowd and corner</td>
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**SEARCH SKILLS (field)**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>15:00-15:15</td>
<td>Litter handling</td>
<td>Small groups</td>
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<tr>
<td>15:45-16:15</td>
<td>Land Navigation</td>
<td>Small groups</td>
</tr>
<tr>
<td>16:15-16:45</td>
<td>Tracking</td>
<td>Small groups</td>
</tr>
</tbody>
</table>

- Litter handling  
- revolving  
- ladder  
- lifting  
- Land Nav  
- Triangle  
- Tracking demo attempt
INTRODUCTION

Purpose of course
Taste
Fundamental Knowledge
more depth later
something to tell friends
Prepare for the search which might occur soon

Major Goals
Stress here for victim, foremost in mind
Personal safety
Keep self save more than one
Heroics seldom called for
Never go into field unprepared
Equipment
Knowledge
Learn not to become victim

SAR vocabulary
Medical, Radio, Climbing, SAR, Acronyms
Stop if not told

Questions
Describe course outline
Introduce Instructors
Chris Ingle
FJRNAR in group
2 year History major

Chris Metzler
Chairman, GDO
900 records
2 years in group
4 year Physics major
LEGAL

National Search and Rescue (SAR) plan
Inland SAR USAF
USAF>> State
Scott Airforce Base
Resources
Bill Mahlert
Senior group member
3 years
Flight Paramedic

Brian Wheeler
Ops
4 year graduate

Kevin Cayne
3 years
3rd year Nuc Engineer
GDO

Chris Ingle
ICommonwealth of Virginia

Annex 1-AA
State defines responsibility to DES
DES assigns responsibility to SAR coordinator
Default local law enforcement
If State resources involved State Police respond
We report to State Police

Memorandum of Understanding
DES alerts us
Respond as state resource
State does not have to call us
State can tell us to leave
If we want to stay we can
Current benefits
liability
recognition of reporting to state police
state recognition
Future benefits
cost reimbursement
insurance

Good Samaritan Law
Medical
Implied consent
Abandonment
Entering private property

EMS agency
No red lights

PERSONAL EQUIPMENT

Clothing concepts
Layering/hat
Fiber dynamics
cotton
wool
polypro
New stuff
Demonstration
Wetproof/Windproof

The Ten essentials
Selection Principles
Boots
Sleeping bag
Ground protection & Insulation
Daypack
Dufflebag
Tent
Emergency shelters
Light sources
Compass
Webbing, biner

CONFERENCE ALERTING

Not necessary to remember names right now

Basic idea

Several variations of alerting exist

Lost subjects
   Hiker, child, elderly person, mental problems, airplane

Local law enforcement
   Sheriffs Dept., County Emergency Coordinator, State Police

Department of Emergency Services
   24 hours
   Also handle nukes, floods, etc.

University of Virginia Medical Communications (Medcom)

Pagers

Conference Alert Officers
   Calls Medcom, DES

Finds Dispatch Officer, Incident Commander, Contacts BRMRG roster

Contacts AMRG, SMRG, SWVMRG, BRMRG-E

Status
   Notification
   Alert
      pack bags
      get work done
      be ready to leave
Callout
  as observer may not be called immediately
  may wait sleepless night

!Dispatches
  Overhead team
    Incident staff
    Highly trained field person
      May go by Pegasus
  Quick Response Team
  Limited Response team
  Full callout

PROFESSIONALISM

!Briefly state what being a professional means

!Image problems
  College kids
    viewed as outsiders with rescue squads
    explain local rescue squad mentality
    explain local law enforcement mentality

!State relationship
  dealing with law enforcement
  one mistake hinders future searches
  new relationship with state police
  no talking to media

!Characteristics of a good searcher
  Physical
    good health
    cardiorespiratory endurance
  Personality
    enthusiasm
    not excitable or impulsive
    capable of following own initiative
    cooperative in following others
    sense of humor
    empathetic
    optimistic, while prepared for the worst
    political sense

Technical
familiar with SAR
familiar with hostile environment
medical knowledge

SAR OPERATIONS

Operate with Preplan called SAROP

Preplan specifies how we operate and how we respond

Levels of involvement
- overhead team
- quick response
- limited response
- Full callout

Who you see at a search

Responsible agents
- National Park Service
- State police
- County police
- Sheriff's Department
- Emergency Coordinator

SAR Community
- Ground Teams
  - ASRC
  - Baywood
  - Bridgewater
  - CAP
- Dog Teams
  - Dogs East
  - Blue and Gray
  - local police hounds
  - U.S. Customs
- Cave Rescue Communication Network
- Helicopters
  - State police
  - Fairfax county
  - Medical
  - Military
- Local
  - Rescue squads
  - Fire Depts
  - Friends
Survival and First Aid

Survival situations
Tasks run into night
Lost
Airplane crash

All short term
No hunting skills needed
Food gathering
Priorities
- Food -weeks (fatigue leads to hypothermia)
- Water -days (prevent hypo, frostbite, heat problems)
- Shelter-hours
- Hypothermia
- Oxygen -minutes

Psychological factors
First Aid
Do no harm
 Immediate triage
ABC's
Shock
Bleeding
Sprains/fractures
Heat
Heat exhaustion, heat stroke
Cold
Immersion foot, frostbite, hypothermia
Bites and stings
Bee stings, snakebites, tick prevention

LAND NAVIGATION

Map Reading
7.5 minutes
Scale
Map name
Map year
Color
Contour lines
Ask FTL to show map

Plotting Methods
The "N in national" method
UTM
ASRC
Compass
True N. magnetic
Compass operation
Following a course
Taking a bearing

FIELD COMMUNICATION

Signalling
Voice
Whistles
three blast help
two blast call
Signal mirrors
Fires
Hand and body signals

Radios
Before turn on
Anten. checked
Signed out by base
leather case
harness
extra battery
plastic bag
Operation
on-off
volume
squelch
channel selection
push to talk switch
Improving Reception
squelch
standing still
moving one yard
getting higher

Technique
little talk
think before speak
short transmissions
during rescue stay quiet
No team to team commo is base permission

A, B, C stuff

No ETOH
No product names