

WINTER 1976

SEARCH AND RESCUE



MAGAZINE

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OFFICIAL PUBLICATION OF THE NATIONAL ASSOCIATION OF SEARCH AND RESCUE

ONE WALKED AWAY

Laurie Elder's Trek to Freedom

CHEYENNE!

An Editorial on the 1976 NASAR Conference

GLACIER!

The Life and Death of an Ice Mass



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WINTER 1976

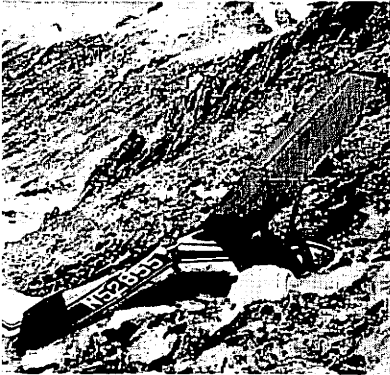
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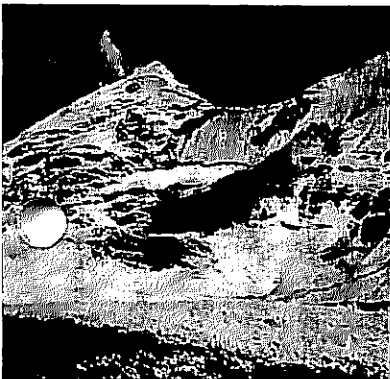
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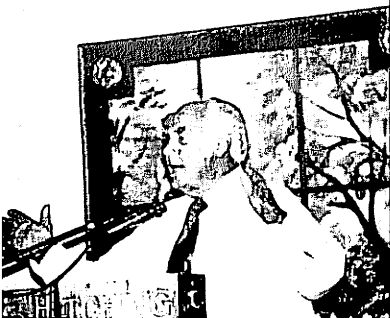
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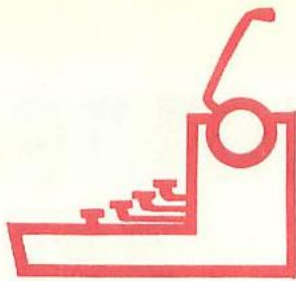
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**MANUSCRIPTS SUBMITTED FOR
THE SPRING, 1977 ISSUE MUST
BE RECEIVED BY THE EDITOR
NO LATER THAN
JANUARY 15, 1977**



LETTERS TO THE EDITOR

Dear Editor:

Our 1977 catalog will have two new books of special interest to your readers:

Wild Food Plants of the Sierra, by Steven and Mary Thompson. In 188 pages this book presents over 100 wild food plants, with a clear drawing of each one. Price \$2.95. Available November 1976.

Huckleberry Country: Wild Food Plants of the Pacific Northwest. A sequel to the book above. To be published March 1977. Tentative price \$3.95.

Both books will be on sale in backpacking shops as well as bookstores and direct from us.

Thomas Winnett,
Wilderness Press
Berkeley, California

Dear Editor:

I found Stan Bush's proposal for an EMT-Wilderness rating very interesting, and highly motivating. I have felt for a long time that in SAR, you are dealing with a whole different set of rules than are applicable at something like a downtown motor vehicle accident. As Mr. Bush said, "we carry our ambulance in a backpack, and often have to invent items which might otherwise be left out."

My personal opinion is that a proposed syllabus be drawn up and submitted to the National Registry of EMTs, AND those states which do not recognize the Registry (New York, Texas, etc.). It should consist of everything currently in the 81 hour Department of Transportation course, with longer, more in-depth training on the ill effects of heat and cold, bites and stings, wilderness evacuation, patient stabilization for transportation in a backland setting, common Medivac procedures and other pertinent topics. Obviously, this course would add quite a bit of time to the 81 hour course, but it sure would be worth it in the long run.

Hans L. Erdman, REMT-A
Durant, Oklahoma

(continued on page 24)

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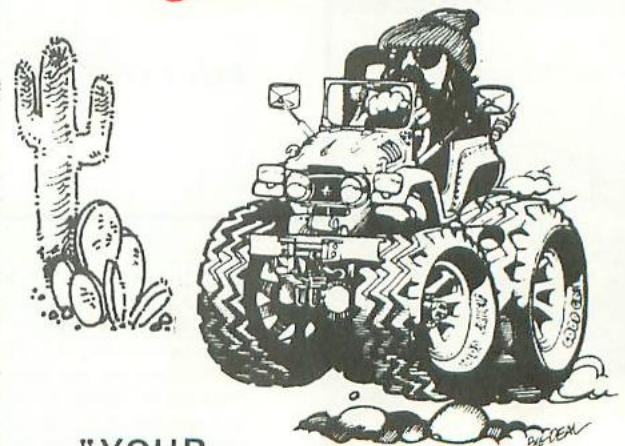
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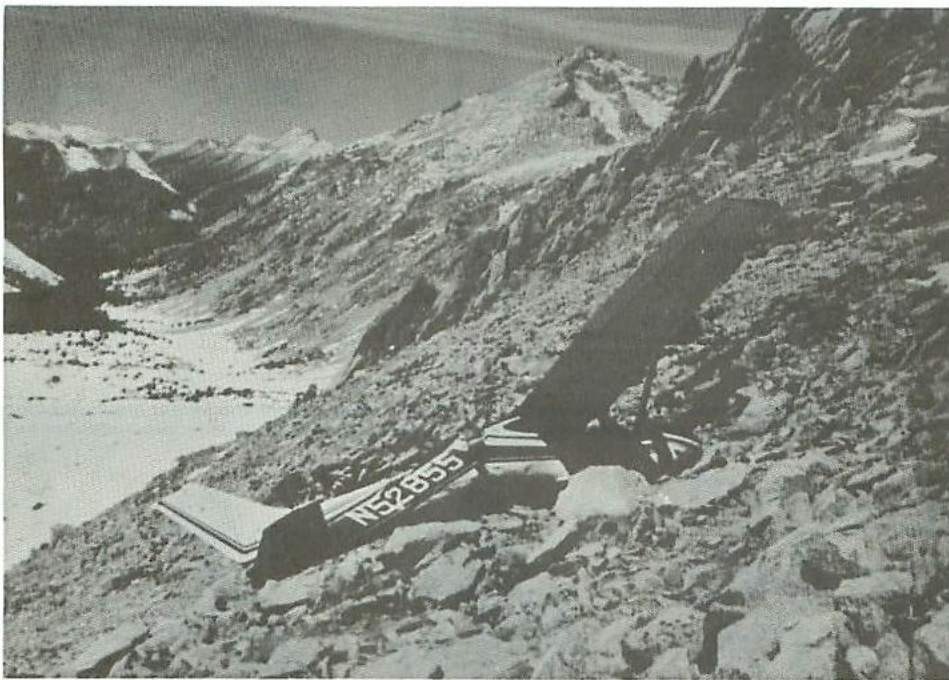
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One Walked Away

BRUCE SCHWEIGER

April 27, 1976, a plane carrying Lauren Elder and her two companions slammed into the crest of Mt. Bradley, California. This is the story of her fight for survival.



April is slack time for the small resort towns that dot along California Highway 14 between Mojave and Bishop; too late for the winter ski trade, and not quite summer enough for hikers, ending rugged treks along the John Muir Trail, to stop for a rest in a comfortable hotel.

In the small Sierra village of Independence, a town of less than 1,000 residents, Ray's Den Motel was not a hot spot by any means. During the season, when rooms are at a premium, they do a substantial business, but at 11:30 the night of Tuesday, April 27, 1976, things were uncomfortably quiet.

The motel manager, Ga Logsdon, was manning the desk and going over the day's take and other business, like meanderings that one goes through in the dead of a vacuumed silent night.

"And in walks this woman," he recalls. "I thought someone had beat the devil out of her."

Logsdon's cultured southern drawl adds an air of authenticity to his yarn. "She was pretty messed up. Both her eyes was black, she was covered with blood, and her mouth all swollen."

The woman rather nonchalantly told the man at the desk, not yet quite believing his own eyes, that she had been in a plane crash the day before and would like a place to sleep.

"Things didn't look just right, and I didn't believe just exactly what she tole me," Logsdon went on. "I figured anybody been in a crash the day before would've cleaned themselves up a little."

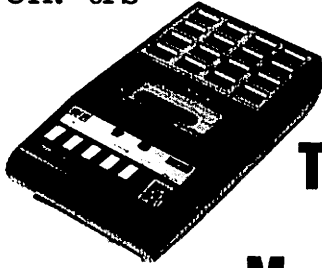
. . . 16 Hour Walk To Save Her Life

What Logsdon didn't know was that 29-year-old Lauren Elder had just finished walking more than 20 miles down the torturous eastern face of the Sierras, near Mt. Bradley. Clothed only in a long coat, slacks, and sandals (which soon wore out), Lauren had stumbled and slid her way along Symmes Creek in a 16 hour walk to save her life.

Logsdon's indecisiveness caused Lauren to leave Ray's Den Motel and proceed down the road. The manager had called the Inyo County Sheriff's substation in Independence, "and as soon as I heard 'plane crash'," said Sgt. Bill Gaulin, "I hopped in

(continued on page 9)

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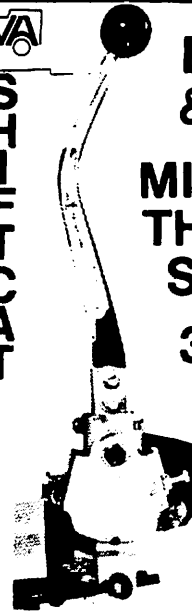
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GLACIERS

BILL MARCH

**"Modern equipment is an asset . . .
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Glaciers are masses of ice which form on land whenever the annual snowfall exceeds the annual loss from melting and evaporation. This critical point is known as the permanent snowline and lies at about 9,000 feet in the European Alps with some local variation due to aspect, e.g., the snowline is generally lower in north-facing slopes in the northern hemisphere because they are not so exposed to the sun. Because of their low temperatures and high orographic rainfall, mountains are the breeding grounds for glaciers, especially in the temperate latitudes. It is, therefore, advantageous to the mountaineer if he is to cross them safely to understand how they form and behave.

Freshly fallen snow has a low density with up to 90% of its volume consisting of air. Gradually, by a process of melting and freezing, granular snow, or neve, is formed which contains about 50% air. As the neve becomes covered with further snow layers, it is compressed into hard glacier ice containing very little air. Over 10% of the world's land surface is covered by glaciers, the great majority of this area being occupied by the enormous ice sheets in Antarctic and Greenland. Smaller ice caps occur in Iceland, Spitzbergen and Baffin Land. These differ greatly from the valley or alpine glaciers which are found in nearly all the major mountain areas of the world.

Valley Glaciers and Their Formation

Valley glaciers occupy previous stream valleys in the mountains and may extend for some distance below the snowline. They begin as cirque glaciers occupying armchair-shaped hollows up in the mountains and extend down into the valleys as hanging glaciers if the main valley is much lower. These glaciers often fill whole valley systems as rivers of ice, and may eventually debouch into the lowlands adjacent to the mountains, joining neighboring valley glaciers to form a piedmont glacier.

All valley glaciers may be subdivided into two parts; (1) An upper part which is a zone of accumulation and has a smooth neve surface; (2) A lower part which is a zone of ablation or wasting and has a rough and pitted surface of bare ice sometimes referred to as a dry glacier. Between the two sections is the neve line where accumulation and ablation are balanced. In the accumulation zone the cross section of the glacier surface is concave upwards,

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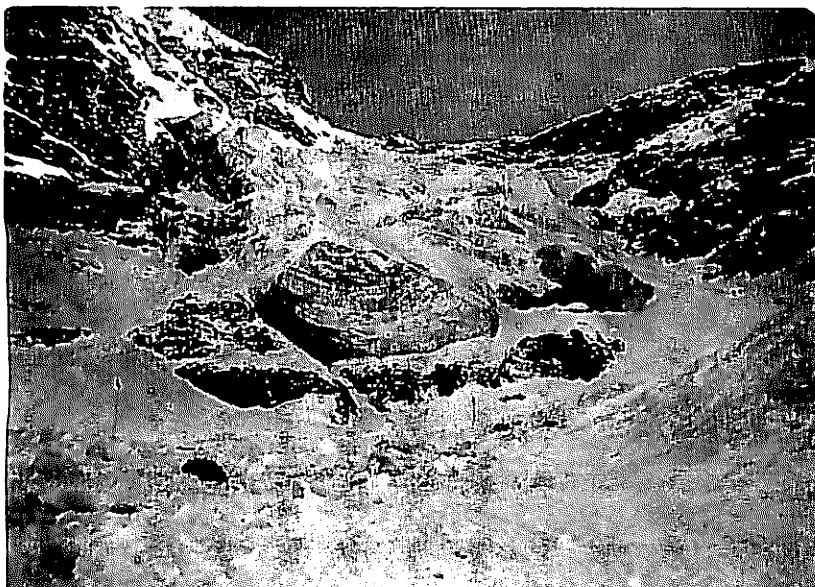
**"Knowledge of the types of
crevasses and their behavior
is essential . . ."**

GLACIER! *(continued from page 7)*

and in the ablation zone it is convex upwards. When the ice movement forward is balanced by the melting, the snout of the glacier remains stationary and the glacier is said to be in dynamic equilibrium. This state is easily upset and an increase in precipitation can result in a glacial retreat. Indeed, glaciers are barometers of climatic change and there has been in European Alps an over-all retreat with some occasional and local re-advances over the past 50 years. This has without doubt affected some of the climbs, especially the pure ice routes. The speed at which glaciers flow varies considerably, in the Swiss Alps indicated rates of flow between 2 inches and 3 feet per day. The fastest rate of flow is found in the center of the glacier, as the bottom and sides are retarded by friction with the rock bed of the valley floor. Two types of flow have been distinguished; (1) laminar flow, which increases with depth and, (2) basal slip or block movement. This latter occurs occasionally when the whole glacier moves forward under extreme pressure from upstream ice. This type of flow could of course precipitate ice falls and avalanches and is really unpredictable for the average mountaineer.

Crevasse are a Real Danger

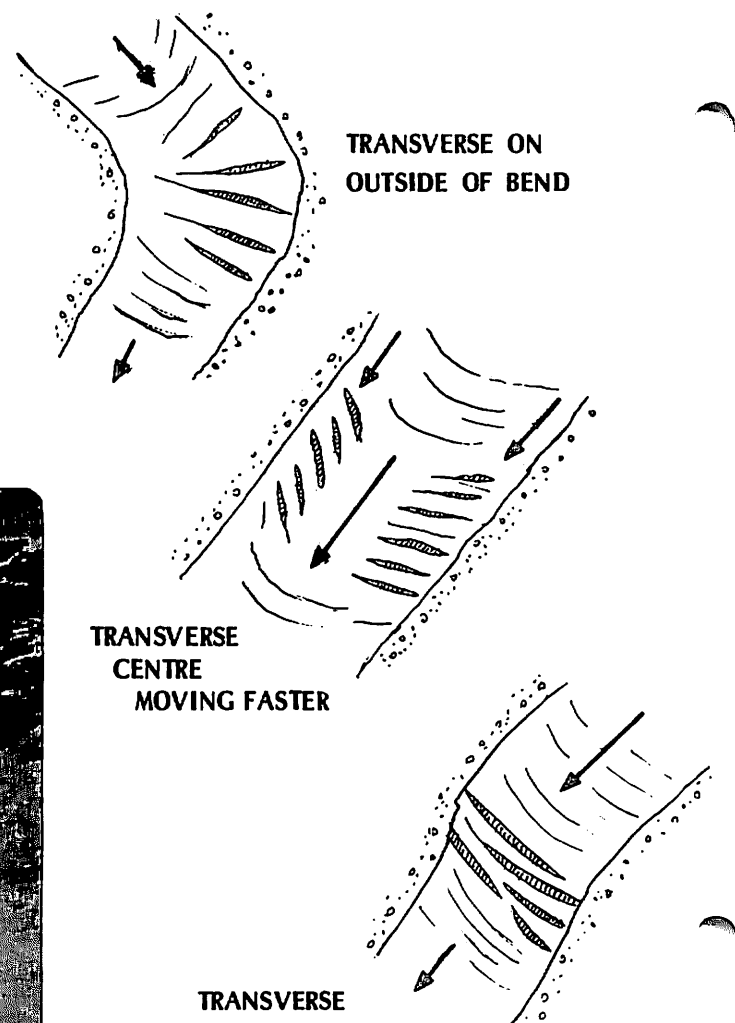
Although glaciers flow, the upper 200 feet is carried as a layer of brittle ice in a rigid zone which can be cracked and fissured by crevasses or contorted by pressure ridges. Pressure ridges are formed on valley glaciers whenever the ice surface is compressed by a narrowing of the valley or an obstruction; the surface is folded into wave-like ridges which can make travel very difficult. Crevasses are formed in many ways, but basically extension of the ice surface is the principal cause. They are less dangerous on 'dry glaciers' where they can be seen but when snow covered, as in the upper section, they can present a real hazard. A knowledge of how and why crevasses are formed enable the mountaineer to detect and avoid danger zones.



CREVASSE TYPES

The Transverse Crevasse

These form across the glacier and may be caused by a step in the valley floor, which, if large, could cause an ice fall or wall of ice cliffs. Transverse crevasses may also form on the outside of a bend in the glacier when the ice is extended or at the snout due to melting and spilling of the ice. The difference in speed between the sides of the glacier and the center may also cause sheet crevasses running diagonally across the glacier.



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ONE WALKED AWAY

(continued from page 5)

my car and hightailed it over to pick her up."

Sgt. Gaulin caught up with her a few hundred yards down the road from the Motel. "I would say she was in a state of shock," he said.

In the patrol car, Lauren became more lucid and began to unravel her story to the deputy. "She said that she'd been in a crash and that her two other friends were probably dead," Sgt. Gaulin relates.

...frostbite, bruises, one bad cut...

She was rushed to Southern Inyo Hospital in Lone Pine and left to the care of Dr. Milton Jones. "She was pretty bruised, and she had a bad cut, maybe one-half inch deep and three inches long, wide open." Sgt. Gaulin said. "But, besides that and some frostbite, she was in pretty fair condition considering what she'd been through."

Lauren told Sgt. Gaulin how she and two friends, Dr. Jav M. Fuller, an Oakland veterinarian, and his girlfriend, Jean Noller, were on a flight from Oakland to Death Valley. The flight plan for Fuller's Cessna 182 called for them to cross over Kearsarge Pass, but navigational problems pulled them off course and the plane slammed into the mountains at the 12,200 foot level three-fourths of a mile south of Mt. Bradley. The plane had missed the crest by just 15 feet!

Jay Fuller and Jean Noller were seated up front and took the worst of the impact, suffering serious head and chest injuries when they were pounded against the dashboard of the light plane.

Jean, panic stricken, struggled free from the efforts of her friend to keep her with the party and headed off into the rocky wilderness, trailing blood from a gash on her face. Rescuers from the China Lake Mountain Rescue Team and Park Service found her body 60 feet from the crash site.

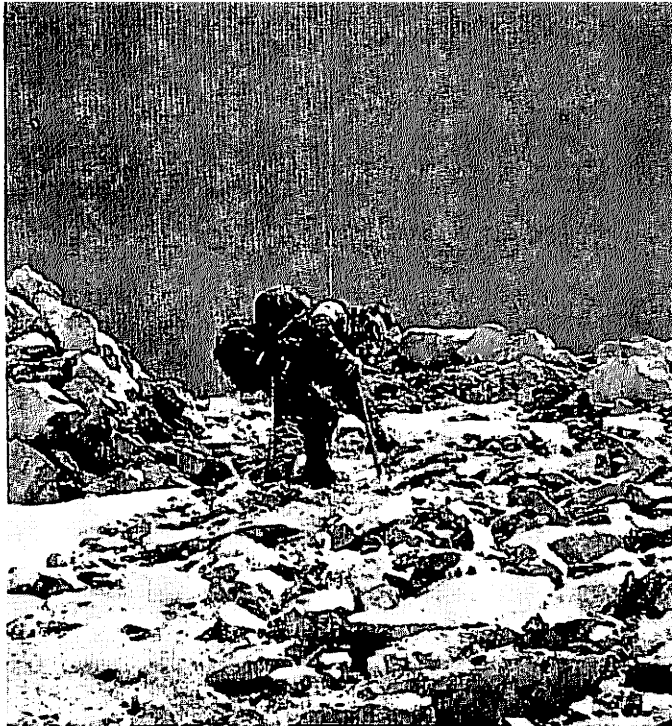
He sat back and quietly froze to death

In an effort to stay alive, Jay poured gas from the Cessna's reserve left wing tank and tried to heat the rocks. Failing in that, Lauren said, he sat back and quietly froze to death. "The pilot did not try and help himself," Sgt. Gaulin said. "He just called it quits." Jay Fuller's body was found by rescuers huddled in the plane's tail section.

Sgt. Gaulin reported that Lauren kept her body warm by rubbing her wrists and staying active. "That's why she's alive today," he replied.

Lauren told an Associated Press reporter that when she awoke Tuesday "to my horror, there was a snowstorm. Wind was whipping over the peak."

Checking Jay's wrist for a pulse, and finding none, I said, "Well, that's that." Leaving her two dead companions, she started down the rugged



One of the searchers in the terrain covered by Lauren in her trek from the crash site.

snow-covered slope.

"I thought, well, I've got two choices. I can resign myself as gracefully as possible to freezing to death, or I can see it through."

I was hallucinating...houses turned out to be rocks

Winding her way through rugged terrain, following trails where none existed, Lauren did emerge from the Sierras.

"I was hallucinating along the way. . . I thought I saw houses and they turned out to be rocks. I would see people and climb down to talk to them. They would just be a bunch of reeds."

"Eventually, I just persisted. . . I wound my way down to the head of a trail. I could see the lights of a town in the distance."

The deserted resort hamlet of Onion Valley was Lauren Elder's first sign of civilization. From there it was a relatively easy walk to where she was picked up.

With Lauren's story as a guide, and a confirmed crash, Sgt. Gaulin contacted Lt. Bob Vaulet of the Bishop Sheriff's office. Lt. Vaulet organized the search.

A helicopter dropped rescuers, including Arold Green, the first man to reach the crash site, at the 11,000 foot level of the relatively smooth western slope of Mr. Bradley.

Searchers followed Lauren's trail to the scene, finding her torn and discarded sandals along the way. The bodies were evacuated by the U.S. Park Service.

(continued on page 28)

EDIBLE WILD PLANTS

DAN HENSLEY



Students of survival who are interested in perfecting the art are for the most part preoccupied with the thought of obtaining food. The truth of the matter is that during actual survival situations food ranks rather low on the list of survival priorities. Most tragedies call for some form of survival skills, but knowledge of wild edible plants could be listed near the bottom since statistically less than four days are spent on the majority of survival epics. There is seldom any reason to become overly concerned for a healthy person's physiological needs. Strangely enough in short term emergencies the real importance of food is in its psychological lift. The getting out and searching for food, finding, preparing, eating and handling give the victims something to do. This gives the mind something to do that is positive rather than dwelling on a seemingly hopeless situation. They are *doing something for themselves*, and that is important, in order to render the situation less stressful. Even though it's not biologically significant it can and does have strong morale building qualities.

Edible Plants = Greek

Unfortunately, the average city dweller equates wild plants with Greek. They are under the false conception that they wouldn't know one if they saw it. Certainly there are many plants that most lay people would not be familiar with or know how to prepare; however, they might be surprised to find how many they actually know but just hadn't considered. Just to list a few wild plants: plums, apples, grapes, strawberries, blackberries, raspberries, gooseberries, black walnuts, carrots, onions, greens and mustard. Most people would recognize some of these and would know that they are edible. So in reality we are not developing a whole new area of knowledge but adding to something we already have some knowledge of.

A Proper Perspective

In all survival situations one should try to maintain a proper perspective of himself and the situation. It certainly makes little sense to work oneself to near exhaustion in order to relieve hunger pains and a nagging headache if the fruits of one's labor only pay you back with half as much energy as you expended getting it. That's deficit spending. Also, if the situation is seriously lacking water, one should not spend any appreciable amount of time looking for food.

There are literally hundreds, if not thousands, of wild edible plants. Luckily we don't need to know them all since water has a higher priority than food. We can exist anywhere from 14-30 days without the benefit of food and we can live for 3-10 days without water. It would behoove us to learn about some of those wild edible plants that are found near water sources. With limited water one should limit his food intake. So any serious wild plant harvest should be done near some source of water. With this in mind I have selected a few plants that you might find near a lake, stream, pond or marsh.

ARROWHEAD: (*Wappato Sagittario*)

1. The tubers can be harvested from late fall through early spring.
2. The tubers have a stinging taste that is easily removed by roasting.

ALDER: (*Popular, Cottonwood, Populus*)

1. The inner bark and young buds can be eaten raw.
2. The taste can greatly be improved by cooking.

CATTAILS: (*Typha latifolia, Typha Angustifoli*)

1. The roots can be collected in the fall. A starchy substance can be chewed out of the roots.
2. The roots may be peeled and dried then ground into a substitute flour.
3. The young shoots may be eaten raw.
4. The spikes are collected in late summer, peeled and used like you would a flour substitute.
5. The spikes in the early summer when green can be boiled like corn.

HORSETAIL: (*Joint grass, Equisetum Fluvialile*)

1. In the spring the young shoots are best if cooked.
2. The older shoots may have the inner pulp scrapped and eaten either raw or cooked.

WATER LILIES: (*Pond lily, Lotus*)

1. The rootstock, tubers and seeds can be eaten raw. The seeds taste better roasted. The rootstock should be peeled.
2. The leaves and young buds may be eaten cooked.

MINER'S LETTUCE: (*Montia*)

1. The leaves, stems and flowers may be eaten raw when young and tender.
2. If older and tougher they should be cooked.

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HEALTH FOODS vs C-RATIONS FOR SURVIVAL

Master Sergeant Robert J. Ward, NCOIC of advanced training for Co. C, 3d Bn., 12th SF Group (Airborne), Fort MacArthur, California, is known as 'Travel Light Ward,' as he substitutes health foods and vitamins for C rations when in the field.

"I can function effectively for three days in the field without any other food. Each morning, I take a mouthful of predigested protein, wheat germ and a couple of ounces of soy beans, which provide energy. I take a combination iodine and potassium tablet to replace the potassium lost through intensive perspiration (which slows down the bodily functions). The iodine is utilized by the liver and vital organs. The stress tab contains a massive dose of vitamins. I also take 3000 units of Vitamin C and eat a dozen dried prunes. I round out my food intake with two cups of instant soup - hot or cold. The honey, vinegar and water mixture is a good thirst quencher, and also gives you a shot of quick energy.

I get a lot of kidding about my menu, but it works. I can survive and function - without carrying a lot of excess weight. If troopers could break away from their food 'security blanket,' they could travel lighter, move faster and execute their missions more effectively.

Whenever Ward is alerted for a mission, he discusses the area and the climate with his local nutritionist, who recommends a list of nutrients and vitamins. He uses much the same diet for both jungle and desert operations. During a two-week operation in Panama, he consumed only eight cans of C ration fruit and one can of meat, in addition to his vitamin-health food menu.

"Two years ago, I consulted my nutritionist when I found we were going to be operating in a primitive area in Arkansas. She recommended that we take be-

tween 600 and 1000 units of Vitamin B-complex to ward off the mosquitoes. We thought that she was joking, but decided to give it a try. The results were amazing! Not one man was bitten. Later in Panama, we tried it again, and where other team members suffered swollen eyes from mosquitoes, our team was not bothered. I understand that the intake of the B-complex results in the body giving off an odor that is repulsive to mosquitoes."

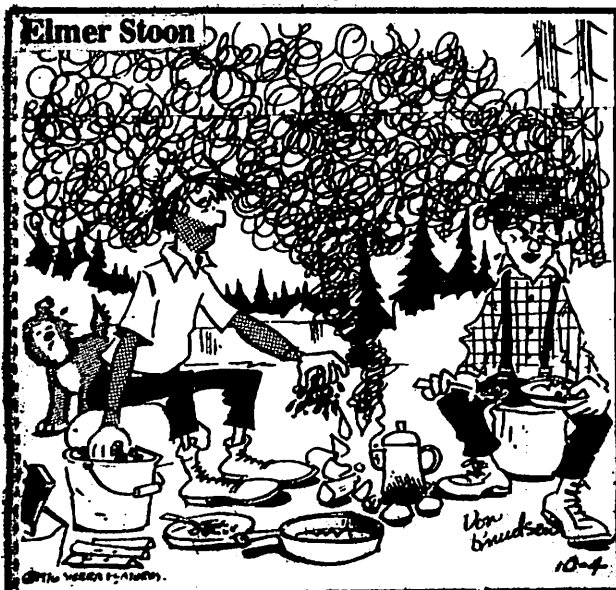
Ward is one of the SF old timers. He enlisted as a Navy aerial gunner in May, 1942, was later assigned to the Marine infantry and fought in most of the major campaigns in the Pacific. He entered the Marines in 1947, and was a machine gun instructor during the Korean conflict. In 1964, he joined the elite Marine Force Recon, retired in 1971, and subsequently, joined the Special Forces Reserve.

He's an enthusiastic supporter of the SF concept, and points out that it provides a young man with an opportunity "... do what John Wayne is supposed to do. It's a fast-moving exciting life, all the time. You never know from one moment to the next where you're going to be used in the world. Your action-type of training prepared you for a wide variety of challenges not experienced by the average young man. Furthermore, you're in a position to back up your country in time of need."

Carry on, Sgt. Ward!

Reprinted from *Soldier of Fortune*, P.O. Box 693, Boulder, Co. 80306. ■

From the Montrose, California *Ledger*



THAT SEAWEEED MAKES A GOOD SMUDGE, ELMER,
BUT I THINK I'D RATHER HAVE THE MOSQUITOES!

Search and Rescue Dog Training

by Sandy Bryson

This book tells you, in specific detail, step-by-step: how to select a puppy with the most promise of success; what breed is best; how to teach him (or her) to search for and find just what you order; how to communicate with your dog and expand his vocabulary; how to teach your dog to ignore distractions, and pursue "doggedly" the objective; how to care for your SAR dog; how to form an effective SAR unit; how to communicate with various agencies that may help in the search and rescue mission.

SAR work is a growing profession. As more and more people are venturing into the wilderness ... and getting lost, more SAR units are being formed everywhere. All too frequently the dogs and teams are not well-trained and are then worse than useless. *This book tells how to do it properly.*

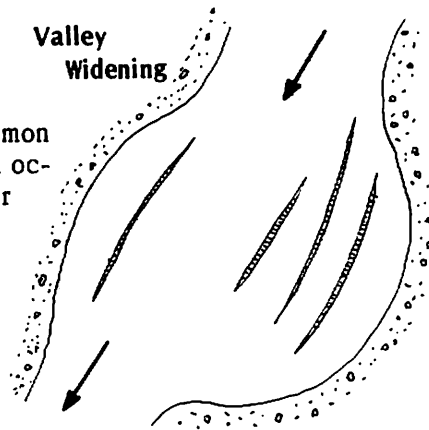
214 pp., 5½x8½, illustrated with photos and line drawings. Paper, \$5.95 (plus 25¢ shipping); California residents please add 36¢ tax. (Standard discount to stores)

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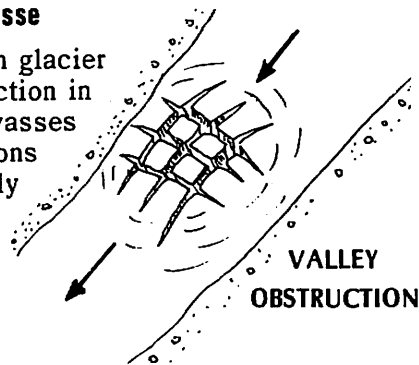
The Longitudinal Crevasse

These are less common than transverse and occur when the glacier widens or when a rock ridge runs along the flow line of the glacier floor.



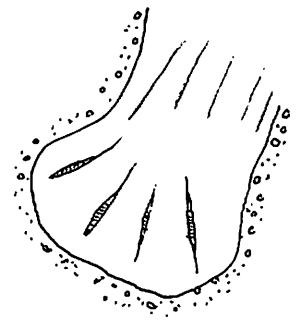
The Intersecting Crevasse

When the intersection glacier flows over an obstruction in the valley floor, crevasses radiate in all directions and there is extremely broken terrain. Disturbed zones may also occur where two glaciers join.



The Radial or Fan Shaped Crevasses

These occur at the snouts of glaciers when the ice spreads out in all directions.

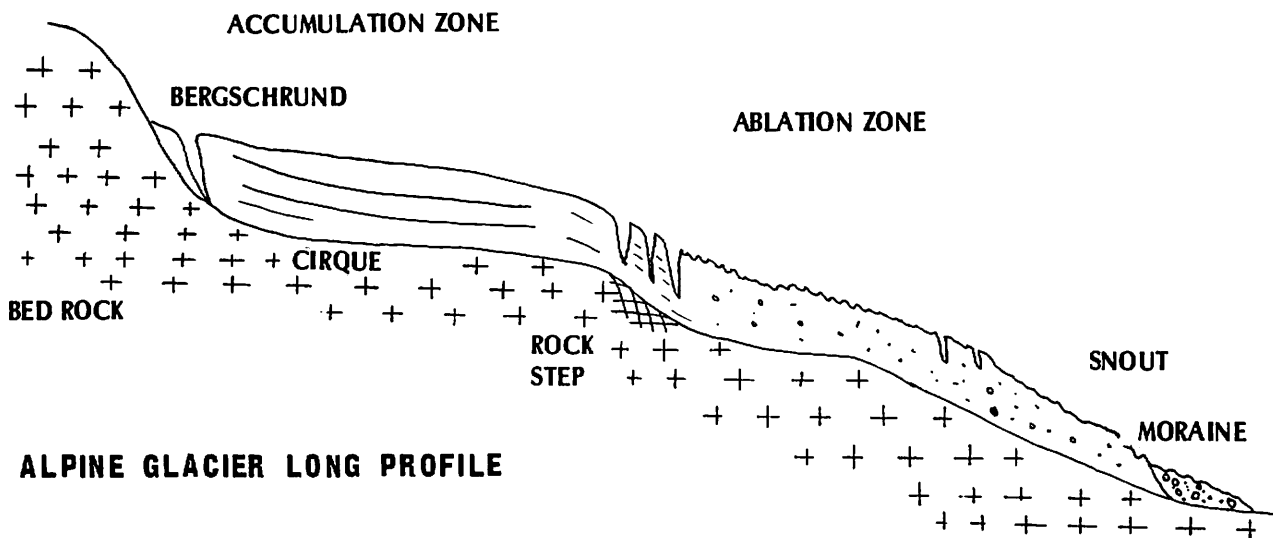


The Bergschrund

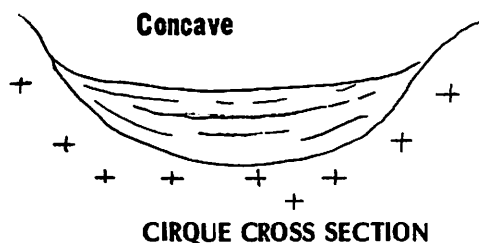
This type of crevasse is found at the head of the glacier where it adjoins the headwall of the mountain. It is formed by the ice moving away from the headwall down valley, leaving some ice frozen to the uphill side. The bergschrund can be quite difficult or impossible to cross as the uphill side is often higher than the downhill and presents an overhanging ice wall.

Another type of glacial obstacle which is not strictly a crevasse is a randkluft, which is found at the glacier edge where the rock melts the ice in contact with it, leaving a gap between the two. It is different from a Bergschrund in that one wall is rock and the other is ice. This also can form a barrier of difficulty to the mountaineer.

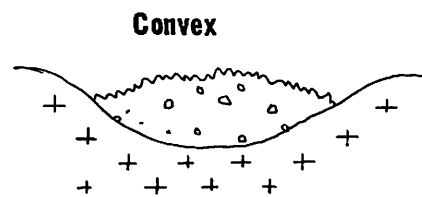
(continued on page 30)




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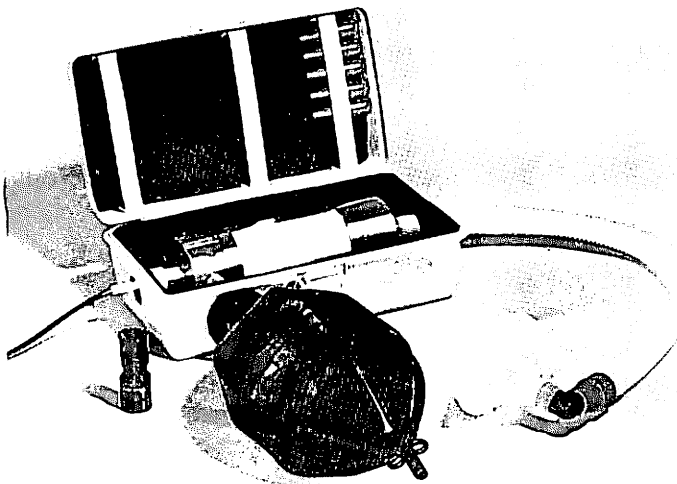
SYNOPSIS

Dramatizing two examples of young people getting lost – in the woods and in the desert – the film first shows the things the victims did wrong while lost and then shows what they should have done to lengthen survival and help searchers find them. Emphasized are three basics: stay put, make shelter, and give distress signals with detailed coverage of each. In addition, information is given on conserving energy and body moisture, techniques of finding water, safe vs. poisonous plants, the body's actual food and water needs under survival conditions, building proper fires, etc., plus the important practice of leaving a note telling where you plan to go. The film also touches on nature lore and first aid basics and encourages viewers to learn more so they can safely and more fully enjoy wilderness areas.

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EDITORIAL

It's six o'clock Thursday morning, September 9th, 1976. The Cheyenne, Wyoming, airport is quiet. A young girl lies sleeping on a bench near the coffee shop. An older man brushes scraps of paper and lint into a dust pan at the end of the long corridor; a cowboy ambles by, the sound of his boots on the tile echoing off the walls of the terminal. Outside, the streets of Cheyenne are all but deserted. A dog straggles pass the car on our way to the hotel. The sun is up; the sky, a crystal blue with a few floating cumulus clouds to the south.

At the hotel, more activity is evident: the restaurant is busy with breakfast. Reception is reverifying reservations, assigning rooms, shuffling luggage. The first sign of a rush of activity which is to peak Saturday, September 11th and by Sunday afternoon have passed, with Cheyenne reoperating in tranquility from the 7th annual National Association of Search and Rescue (NASAR) convention. NASAR is a non-profit organization comprised of unpaid volunteers and paid professionals, the purpose of which is to coordinate search and rescue (SAR) efforts on a national (and international) basis.

Many of those attending the conference are tired from late night flights from all over the United States, but by 10:00 a.m. the hotel is vibrant.

During all this the first NASAR business meetings to review the past year's activities are being

conducted in the main conference rooms. We register for the convention (\$20 a piece) and are given identification pins and conference brochures. I'm introduced to Jake Herzog, the conference organizer, and Lois McCoy, NASAR's Executive Secretary, who is dressed in cowboy hat, boots, and a kerchief. In days to come Lois will be identified as the somewhat controversial, dynamic, whirlwind hub of this international association. Dennis Kelley, Publisher of *Search and Rescue Magazine*, and my boss, furiously introduces me to a multitude of newcomers — sheriffs, politicians, federal, state and local dignitaries, officers and enlisted men from all branches of the military, representatives from Japan, China, Indonesia, Europe

A short conversation with Kelley and he's off to attend a meeting. I'm on my own. With notebook in hand, I plan an unplanned attack: to meet as many people as possible and gain maximum exposure to and understanding of SAR.

intense, sometimes emotional. . .

Back in the main hall, the Ventura, California SAR team is looking a little lost as this is their first NASAR convention. Over coffee, they discuss the Association and their objectives, and a series of past rescue operations are kicked around. I observe the first of a technique of which there'll be a

(continued on page 16)

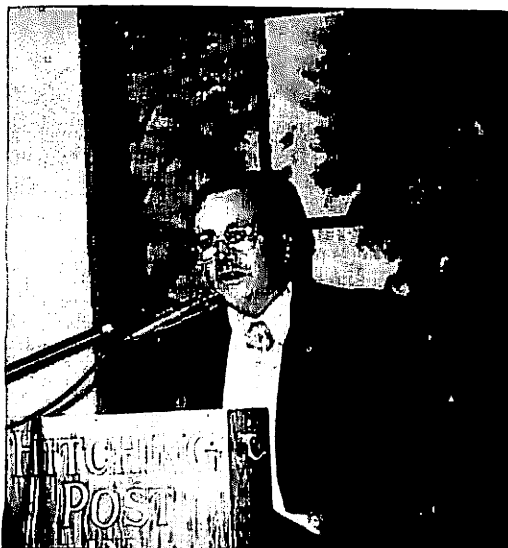
CHEYENNE (continued from page 15)

lot more: intensive, sometimes emotional, exchange of ideas, filled with ripples of humor, sarcasm, devotion, riddling and chiding. For the entire convention there were never more than ten minutes where search and rescue work was not the primary theme. Perhaps it was this heavy (and yet lighthearted) approach which encouraged and permitted the intensity.

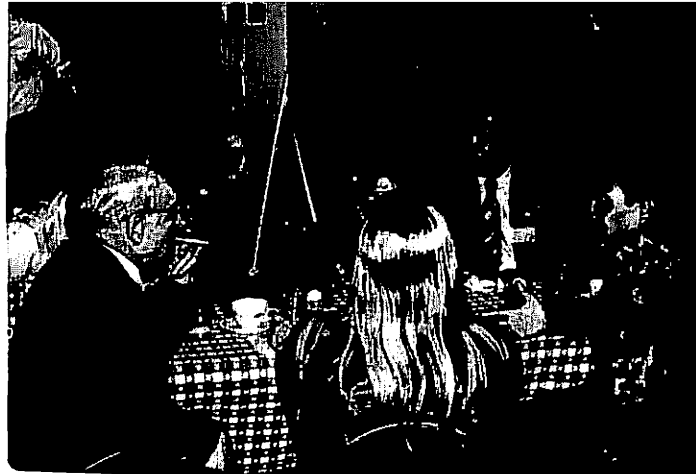
For my own interest and clarity, I concentrate on the personality types, and there's a bunch. The casual humor of the military enlisted, the bearing of the officers, the starched linguistics of the Sheriff's Deputies, the acronyms of the technicians, the 14-karat verbage of the political aspirers, the soft-spoken sincerity of a few. Eventually, the common bonds surface: love for the outdoors, concern for others and, most significantly, extreme dedication to search and rescue.

Kelley stops by and we meet for lunch in the restaurant with Ed Cleeves, Lt. Col., USAF, Carey Moore and Penny Miller, Jerry Hathaway and Grant Smith (who are helping to develop an Explorer Scout search and rescue organization, and Roy Jaque, working with rescue dog techniques.

The afternoon passes quickly. In the Exhibit Room Ellen Landres, our Sales Representative, is busy with customers. I'm introduced to Bob and Marcy (the flurry) Koenig who are doing extensive work with Rescue Dogs in association with Bill and Jean Sarotuck. Bob and Marcy are enthusiastic almost to the point of confusion and talk excitedly about recent events in the Rescue Dog field. More meetings and introductions and the afternoon is over. Drinks are proffered by the PJ's (Paramedic Jumpers) in one of the hospitality rooms and we take them up. Tom Magwire is there, the young, intense Assistant SAR Coordinator for Washington State. NASAR also has a Hospitality Room and among others we meet Jeff Monroe, 2nd Vice President, NASAR. We discuss the feasibility of collecting a



We're all indebted to JAKE HERZOG for one heck of an organized conference!



Several of the honored international delegates

data base of all published SAR-related documents and making this information available to all SAR groups and agencies.

Doing the Town...

Two other stops at Hospitality Rooms, and Dennis, Ellen and I are off to a Chinese Restaurant, the "City Cafe," for dinner. We enter and are escorted to a large banquet room, plain but functional, and join a large table of other SAR personages. We meet Gale Goyins, Oregon State Aviation Officer, Army National Guard; John Olson, State SAR Coordinator for Oregon; Ralph McGinnis, Assistant Director for the Oregon State Board of Aeronautics.

Dinner was a Number 3 for 6 with a lingering conversation on "Bloody Scours." Rick LaValla, Washington State SAR Coordinator and a keynote member of NASAR, enters with his entourage to abundant applause and chiding. Rick is a young, nice-looking and aggressive fellow, and is to play an important role in many of the convention's activities. Conversations over dinner vary from SAR business to light philosophy; Larry from Maugham's *The Razor's Edge*.

After dinner the three of us are off on a walking tour of Cheyenne, along Capital Street toward the center of town. Cheyenne is a small town, population 43,000, and we quip about life in small town America, but recognized that this is typical of the heart of our country. The evening is cool but pleasant. We walk back the way we've come. We are all tired from a long day and little sleep, but the convention atmosphere has kept the adrenalin pumping. We've been thrown together in a fast-moving environment; become friends instantly.

Ellen drops Kelley and I back at the hotel and we rejoin the fit of activity. Jake Herzog, Wyoming State SAR Coordinator, introduces us to Colonel Harry Palmer, Civil Defense Coordinator for Wyoming, and Sean Casey, Civil Defense Coordinator for Laramie County, an ambitious young man. Colonel Palmer reminisces about the days before organized search and rescue, and years of devotion and effort are evident in his attitude. We return to one of the Hospitality Rooms for a nightcap and some trailing conversations, and then on to bed. It's been a 48-hour day, but we are elated by all the activity and by meeting the mobs of faces. It's 4:00 a.m.

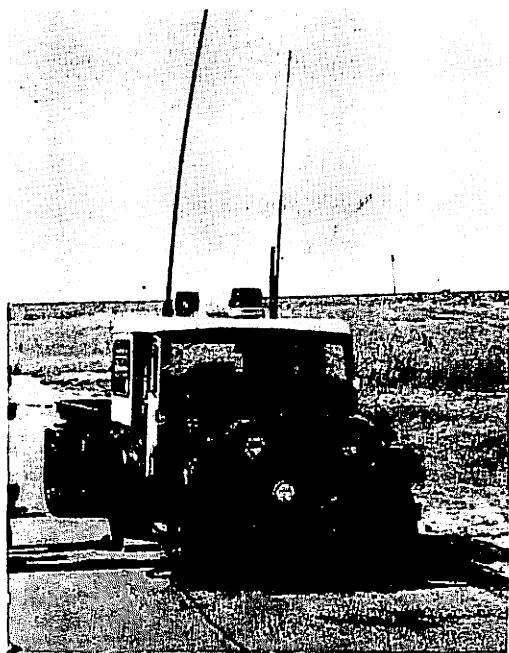
A bleary-eyed, semi-conscious morning. . .

Friday morning the phone rattles us to semi-consciousness. The Reception Clerk informs us it's 7:00 a.m.; a quick shower and we're off to breakfast. We join Dixie and Keith Ferrick, Carol, Bill and Mike Higman, all from Cortez, Colorado. It's surprising to see the throngs of people who're already waiting for another busy day. The conversation at the table centers around Washington State, which is the only state for which government financial assistance is paid. It's noted that this help has provided a sophisticated organizational structure.

At 9:00 a.m. the official opening ceremonies of the conference are commenced. The U.S. Coast Guard presents a flag ceremony. Blair Nilsson, President of NASAR, the Laramie County Sheriff, and the Mayor of Cheyenne welcome all members. Paul Koenig, Utah State SAR Coordinator and NASAR Secretary-Treasurer, introduces a number of dignitaries, including Colonel Roy Dreibelbis, U.S.A.F., who speaks of a typical day in the Aerospace Rescue and Recovery Service (ARRS): 31 searches opened, 19 solved. Col. Bigelow, Civil Air Patrol, speaks on weather satellite photography and related applications to search and rescue. Rick LaValla is introduced and speaks, ad-libbing on improving the operation and interface of the various SAR agencies. His enthusiasm encompasses the audience; his style intentionally unstructured and open. Fred Wiler, U.S. Coast Guard, presents applications and principles of data base collection for SAR activities.

A break in the ceremonies and more introductions. At lunch time a meal is served in the main conference room and we join a number of SAR people from Denver.

Following lunch, the Wyoming Secretary of State, Mrs. Thyra Thomson, offers a warm welcome. Major General Saunders, U.S.A.F., speaks of the inland search and rescue activities. This is followed by an



The "Wonder Jeep" – one of a number of specialty items



An abbreviated instruction and demonstration on Spree and verticle evacuations was presented

abstract of classes to be presented Saturday.

continuing war stories

In mid-afternoon the meeting ends and word of various Hospitality Rooms is passed. We're tired, but a relaxing hour in the jacuzzi and a few laps in the pool are refreshing and we're ready to meet the evening. The Ventura Team is holding an open house and an abundance of "war stories" can be heard around the room. The two newest members, both gals, are laughing about the problems of SAR team members accepting women in their midst. In Room 346, the NASAR Hospitality Room, we're having a conversation with Jon Gunson regarding the application of sophisticated metal detectors in locating avalanche victims. Jon is from the Summit Mountain Rescue Team. Sandwiched somewhere between hospitality rooms we were given an introduction to the "Wonder Jeep" by Bill Kratch, the designer.

continuing management headaches

Back in 346 the conversation drifts to the problems of organizing the conference. A few small (but seemingly large) protocol errors have erupted in an otherwise healthy conference. A senior member of the military has been seated at what he felt was the wrong table (I flash on a lack of self-confidence which would allow this any import). Bruce Gordon talks about Emergency Transmitter Locators and is very into their design and use. Vicky Mason is here and humorously berating Dennis, as usual. The conversation continues on NASAR problems, the most critical being the lack of supportive funds and I wonder what the *hell* makes it all work without the money. There are so many people, most intensely devout to SAR; people who are fulfilling their own needs and saving lives in the process. And without sponsorship. But then, instinctively, I wonder if

(continued on page 18)

CHEYENNE *(continued from page 17)*

funds are the ultimate answer. Perhaps not. Perhaps the challenge of making it all work on their own, without sponsorship, is more important. These people are all self-starters.

an oasis of tranquility

Eventually, the Hospitality Room empties and I search for other signs of life. I find the lounge — for the first time — and spot two deputies from the Ventura Team that we'd been talking with earlier. The conversation is still on war stories and after a time I fade out and mentally review the day's events. Being alone allows the time to conclude that I'm glad I've become tied up in this effort. There's no question that a lot about search and rescue can be learned in a very short period. I've seen what causes part of NASAR's problems and think it's generally one of diversified personalities. I'm deep in my own realm, considering Blair Nilsson and possible attributes and shortcomings when Tom Magwire joins the table.

the projected winner

Tom speaks about the election to be held the following day and is the first to flatly predict (within my earshot) that Rick LaValla will become the new NASAR President. I'm shocked to hear this, but pleased. Rick's image is one of self-confidence, minimum B.S., adequate knowledge. He's bound to pull NASAR closer together and he is highly regarded. Fund raising is another issue, but Tom points out that Rick was responsible at least in part for Washington State's funded program.

Saturday morning at 7:00 a.m. another early wake-up call and we grope our way around the room, preparing for another assault. We breakfast with SAR groups from Aspen and Glenwood, Colorado. The Big Thompson River Disaster in Colorado was a big subject and came up again at breakfast. Earlier we had met Captain Tom Staadt, U.S. Army, who we'd encouraged to write an article. Tom had been one of the pilots participating in the rescue effort and had a fist-full of first-hand photographs.

mountain rescues

By 9:00 a.m. we've finished breakfast and I'm on a chartered bus to a mountain rescue exhibition in the countryside near Cheyenne, showing recently developed techniques used by the Colorado Mountain Rescue Association Team, including an innovative breakplate for belaying and portable electric winch for spree evacuations. Charles Demarest provides an excellent portrayal of the applications of this equipment.

The bus ride back to the convention center passes through some beautiful mountainous country, and I'm fighting to stay awake under the rock-me-to-sleep motion of the bus.

meanwhile, back at the...

We arrive at noon and join in for a luncheon prepared by the local Kiwanis Club for the convention. The entire area is filled with throngs of SAR people

(continued on page 22)



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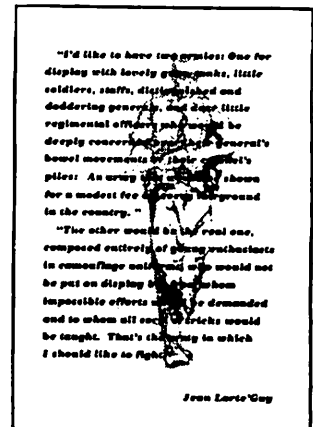
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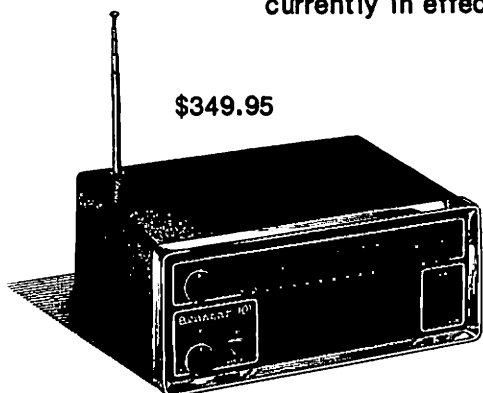
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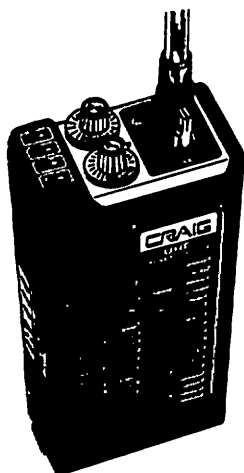
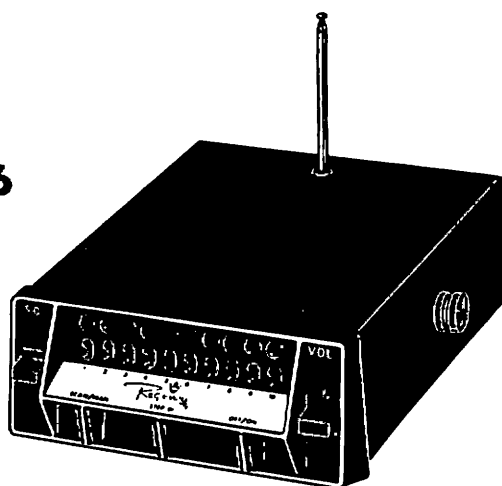
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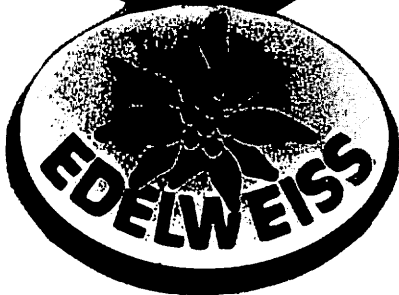
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The agenda will be structured for a "roll-up the shirt sleeves and get down to business" Meeting. Working sessions and committee meetings will head the format. Everyone is welcome and encouraged to attend.

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Hyattsville, MD 20782 (301) 436-6295
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CHEYENNE *(continued from page 18)*

talking at a fever pitch. Lyn Morgan speaks with us regarding an article on training for Emergency Medical Technicians by the Colorado Mountain Rescue Team. Bob and Marcie Koenig magically appeared on the scene as we were eating Kiwanis hot dogs and there ensued a friendly but heated conversation regarding the employment of rescue dogs. Apparently the American Rescue Dog Association (ARDA) feels that rescue dogs can be easily mishandled when used by inexperienced personnel; an issue worthy of note but one also which must be overcome by adequate training for dog and handler alike. We are expecting a related article from Marcie Koenig on this subject.

the elections!

Classes continue throughout the afternoon on a variety of technical and general subjects. The hypothermia (loss of body temperature due to extreme cold) presentation creates waves of conversation. By late afternoon the delegates are gathering to vote for the new NASAR officials. A new voting method is in effect this year, allowing more individual impact. Many feel that this will swing the vote in favor of Rick LaValla, who is popular among the troops. Everything settles in and the Hospitality Rooms open their doors. From somewhere we get advanced word that LaValla is the new President of NASAR, but it is unconfirmed. Then the election is over and preliminary confirmation is given, although the official announcement won't come until the banquet tonight. Notwithstanding the announcement, plentiful handshaking is in evidence surrounding LaValla; his face betrays no reflection of satisfaction, worry, concern, or elation.

the banquet. . .

At 6:00 p.m. the banquet begins. A buffet is provided and an abundance of speakers is introduced. Paul Petzoldt, a national search and rescue figure, portrays some of the early efforts of himself and others in the Grand Tetons and Jackson Hole. Mr. Petzoldt is a true character and a wonderful speaker, the most interesting of the entire convention, and his effervescent personality pours forth, sweeping the entire banquet to a standing ovation; his message — That we are lacking leadership in all outdoor activities.

Colonel Dreibelbis then presents the awards for meritorious efforts by individuals, of which there are many. [see inset following article.]

The new president and his staff are introduced to great applause and cheering. Shortly, the closing ceremonies are complete. The new officers move around the room shaking hands and talking, introducing themselves. The crowd lingers for a time and then thins. We sit talking at length with Bill and Linda McGaffrey from L.A. Carey Moore, grinning ear to ear, passes by and pauses long enough to show us his hot tinfoil trick. We close the evening (at 4:00 a.m.) in conversation with Skip Stratton who is explaining the motivations behind the SAR effort.



A highlight speaker, Mr. PETZOLDT, relating his early adventures in the Tetons

the final day

As quickly as it had begun, it's over. Sunday morning there are closed and open meetings of the delegates. Blair Nilsson bows out, Rick in. By noon the hotel is empty. We've said our goodbyes and are off to the Cheyenne Airport for Flight 607 to Denver. I'm reflecting on my first NASAR convention and the search and rescue people I've met over the last few days. There's an entire cross section of American society all wrapped up in a neat little package. There's the heroes, the villains; there's the average "man in the street," the girl next door. I think about NASAR's funding problem and consider it a possibility that if they were funded, the money might turn SAR people away because a lot of these people are in it for the uphill climb, the challenge, and enjoy making ends meet as it is. I think about the whole spectrum and of all the people of the last few days. And as we are boarding the plane to leave Cheyenne, I think of Skip Stratton's words: "The people in search and rescue work are fulfilling their own needs, and helping others in the process." ■

In Memoriam

VANCE YOST

Mountain Rescue Association Executive Secretary and Past President. Charter member of the Altadena Mountain Rescue Squad of Southern California.

BILL SYROTUCK

President of Search and Rescue Dog Association and Chairman of NASAR Data Collection Committee. Noted Washington State author and mathematician applying statistics to Inland Ground Search.

Election Results

RICK LA VALLA, President

Washington State SAR Coordinator

JOHN OLSON, 1st Vice President

Oregon State SAR Coordinator

RICK GOODMAN, 2nd Vice President,

New Mexico Emergency Services Council

LACY SUITER, Secretary/Treasurer,

Tennessee State SAR Coordinator

Awards

The HAL FOSS AWARD was presented to:

JON WARTES, Washington State

State SAR Coordinators were presented to:

Thomas P. Harlan – Arizona

California Wing Civil Air Patrol – California

Colonel Ott Webb (CAP) – Utah

Jon Wartes – Washington



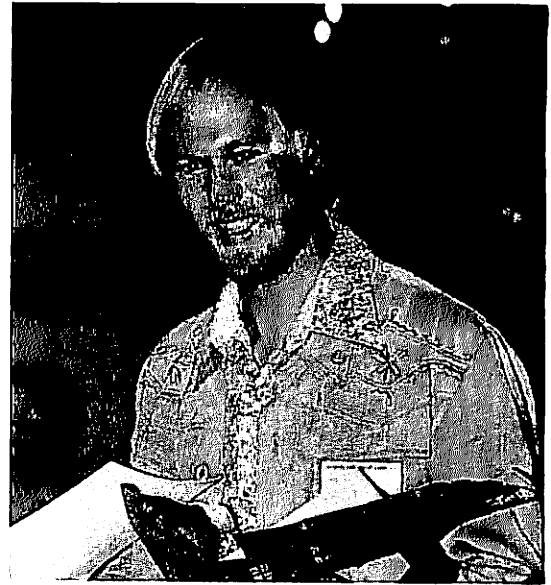
From left: **GENE FEAR, Governor DAN EVANS, JOHN WARTES**

At a special award ceremony held on September 28, 1976, at the State Capitol, Washington State Governor Dan Evans acknowledged the efforts of Gene Fear (Survival Ed Association) and Jon Wartes, (ESAR), both having been awarded NASAR's highest honor, the Hal Foss Service Award.

Governor Evans commented that both of these men represent both ends of the SAR spectrum in the saving of lives. Last year Gene Fear was presented the Hal Foss Award for his efforts and dedication for the saving of life through education (Preventive SAR). Jon Wartes received this year's award for his efforts in the SAR training field, primarily with the ESAR program. So, as the Governor continued, "We have one man trying to prevent the problem and one man dedicated to methods of finding lost persons quickly and efficiently."

Governor Evans further commented that it is men like Gene and Jon who have made Washington State's SAR program one of the best in the country. ▲

EXECUTIVE'S MESSAGE



RICK LA VALLA

Newly Elected President, NASAR

- ◆ *There is no growing SAR Problem.*
- ◆ *Everything is fine.*
- ◆ *Local political subdivisions can handle everything and can provide all necessary equipment and personnel to cope with all types of SAR missions.*
- ◆ *There is nothing new in the state-of-the-art.*
- ◆ *We have been doing so much for so long with so little, that now we can do anything with nothing forever.*
- ◆ *"I don't care how it's done somewhere else, it doesn't apply here."*

These are comments that have stagnated NASAR'S growth and if you agree with these comments, then NASAR probably has little to offer you.

But if you agree that the rapid expansion in search and rescue (SAR) necessitates an organization (national in scope, professional and non-profit) to help us all do our job better, then the National Association of Search and Rescue wants you!

NASAR was established to support, coordinate, develop, inform, promote, and implement SAR capabilities with the underlying principle of saving lives and protecting property. It is also intended to act as a liaison between the state, federal, local and volunteer SAR organizations. NASAR provides a platform to learn from each other, to make things better, and to find out who is doing what. Sharing ideas, investigating new techniques, training and education and publishing all will serve to upgrade the state-of-the-art. But, one of the major goals upon which NASAR was founded is to aid states in imple-

(continued on page 25)

LETTERS TO THE EDITOR

(continued from page 4)

We have received your Fall 1976 issue with its story on our METTAG and we are deeply thankful to you for giving us this good exposure.

I'm sure it will help. Our METTAG project is slowly growing. It appears that we might even say it is "established." And our Journal board members are happy that we have taken on a project so worthwhile.

Please let us know whenever we can do anything for you. We try to publish your upcoming meetings in our little calendar, but too often we don't get the dates in time to publish before the event.

We are holding our annual meeting for the Journal here on November 13. We would warmly welcome any representative of SAR.

Thanks again for your wonderful help. Hoping to meet you one of these days.

Walter Murphey,
Journal of Civil Defense,
Starke, Florida

In your fall edition of *Search and Rescue Magazine* was a listing of Air Force training films and an address where the films could be obtained for loan. The address you gave, Northwest Pacific Regional Audiovisual Library, is located in Japan.

We would greatly appreciate if you would correct the address in your next edition to read:

USAF Central Audiovisual Library
Aerospace Audiovisual Service
Norton AFB, CA 92409

Some of the films you listed have been obsoleted, and we would be happy to bring you up to date and correct your list if you will mail us a copy.

Thank you for your interest in Air Force films, and if we can be of further service, please advise.

B. M. McKewen
Director of Services
DCS/Audiovisual Resources

Keep us in the know

about your changes of address. When you move, drop us a line with your new address so we can get you *Search and Rescue Magazine* on schedule. But PLEASE, send us both your new and OLD address, just to help keep our records straight.

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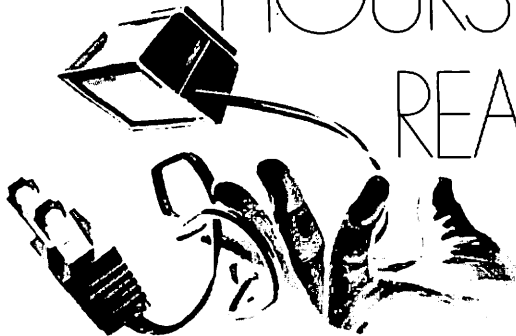
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EXECUTIVE MESSAGE (continued from page 23)

menting a state SAR program and organization or to help states to improve their existing structure and programs.

I believe NASAR has become somewhat stagnant in this important goal, and the reasons why may be hard to isolate. Perhaps some of the solutions are contained within the answers to these questions:

- Have we, as NASAR, actively sought out those state agencies and organizations who may have SAR responsibilities, or have we tried to impose a system that works well in one state but may not work in another?
- Has the program content of our conferences and business meetings included workshops and presentations on state programs and organizations?
- Have we, as NASAR, really researched what the needs of states are, and have we developed and disseminated materials accordingly?

NASAR has strived to become a meaningful organization for everyone interested in SAR, from the volunteer to the federal agency. This is good, but we should not overlook our primary function.

NASAR is (first of all) an organization of states and state agencies who have interests and responsibilities for SAR. The primary goal of the new slate of officers is to continue to support this concept.

Many new, exciting things are happening within NASAR. These include: individual members and organizations have elected delegates to the board; establishment of a NASAR newsletter which will give members current information on everything from NASAR business to specific SAR programs, events, new techniques, etc., etc.; a membership services branch to help provide the NASAR member with any information that is possible and available.

The growth of NASAR in the last year or so has been tremendous, but unfortunately only through the efforts of a few dedicated, hard-working people. NASAR definitely needs more members to hop aboard and lend a hand. There have been entirely too many people asking, "What can or does NASAR do for me?" when the question should include "how can I help myself, NASAR, and others make things better?" You can only expect to receive from any organization a return in direct relation to what you have contributed.

In summary, NASAR, will be providing more for your increased cost of membership. The NASAR member will be better informed and will have many opportunities to actively participate. But, keep in mind that the general rule will be that "your silence implies consent."

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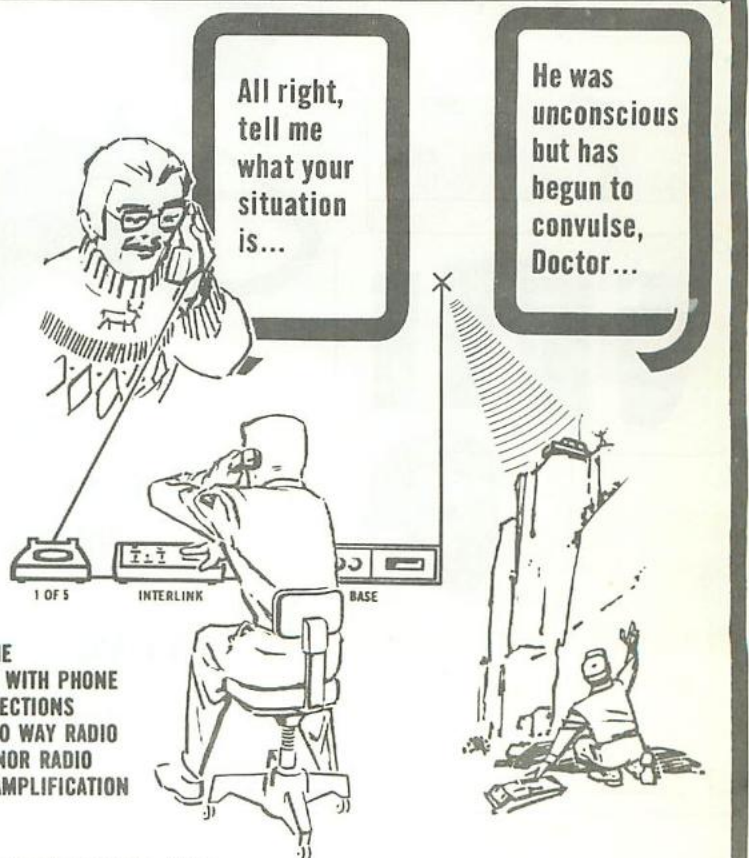
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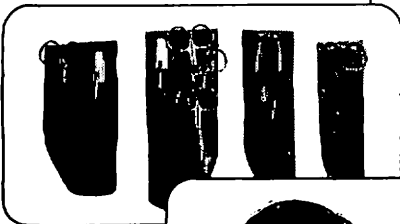
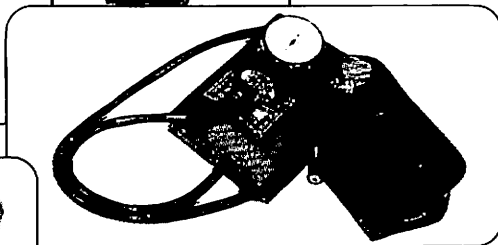
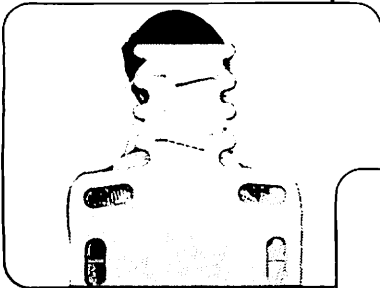
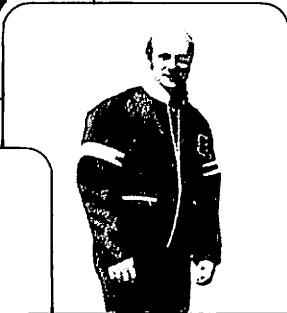
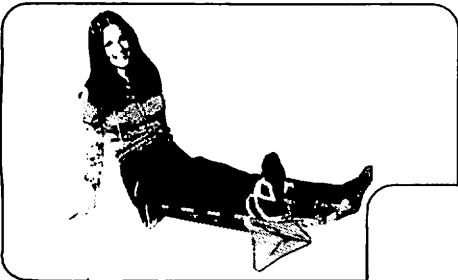


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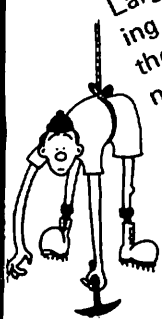
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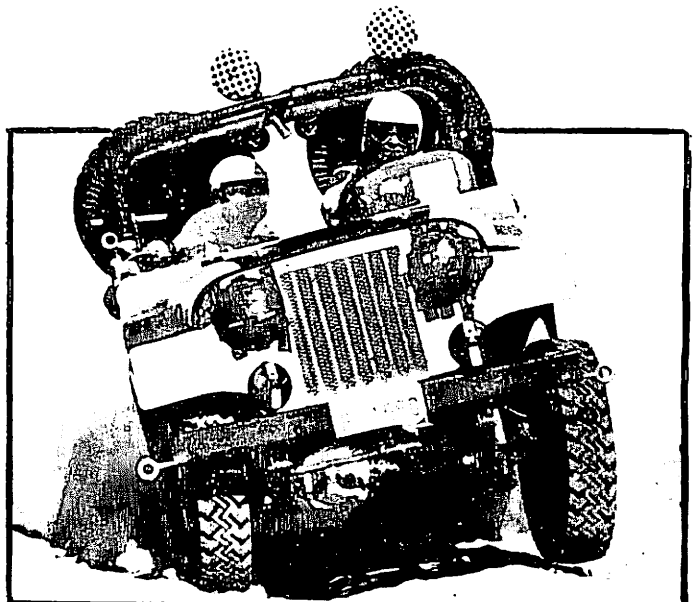
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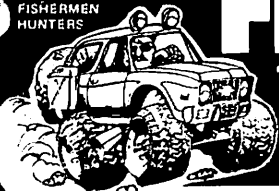
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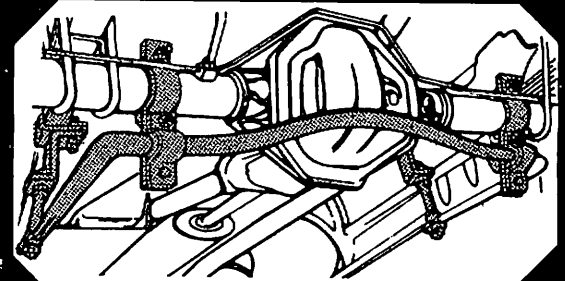
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ONE WALKED AWAY

(continued from page 9)

"I've always wanted to hike through the mountains barefoot," Lauren said. It's beautiful country. But I didn't have time to stop. I wanted people to know I was alive."

"She's lucky to be alive," Sgt. Gaulin concluded. "She's a very courageous young lady."



LAUREN ELDER, recovering after her ordeal.

POSTSCRIPT

"I'm 30 now," said Lauren Elder in a tone that gave special meaning to her words, "and I'm delighted to be 30."

Miss Elder's deep-felt joy in life is understandable: last April 26, then 29, she lived through a shattering High Sierra plane crash; lived through it simply because she refused to die.

"I had the feeling at the time that, 'This is not supposed to be happening. I have work yet to do, and I have to get on with it,'" she says now.

Battered, bruised and suffering from a fractured left forearm, she stood by and comforted her terribly injured companions for many hours before they finally died during a wind-lashed snowstorm that engulfed the wreckage of the light plane just below the crest of the 11,800 foot Shepherd's Pass.

Then, barefoot and haunted by hallucinations, she struggled through 20 miles of some of California's most rugged country before finding safety 16 hours later in the little Inyo County town of Lone Pine.

Now almost fully recovered from her injuries, the 1969 UCLA fine arts graduate is once again immersed in her free-lance art career in the San Francisco Bay Area.

Always a vigorous outdoors person, Miss Elder never allowed the physical or emotional traumas of the tragic accident to overcome her. In early August, with her arm still in a cast, Miss Elder and another

young woman made a 25-mile backpack expedition back to the scene of the crash.

Why? "Curiosity," she says. "I really wanted to know where it happened, wanted to see what the terrain looked like from a different state of mind. . . I think my motive was to do an epilogue for myself, to complete the experience. . . to get an insight into what I had gone through."

It was a trying experience. "It really made me feel anxious," she recalls. "I didn't feel anxiety, fear or panic during the time of the accident. . . I knew I had this strength, emotionally and physically, that I would need to carry me through. It was a very powerful spiritual sensation.

"But when I went back, I was much more in touch with feeling anxious. . . It's very barren, with craggy pinnacles and small stunted trees. . . kind of an eerie landscape. And I had the sense I was tempting fate by going back, although rationally it was perfectly safe."

She pauses a moment, then goes on: "I would say it was really sobering. I was feeling very elated, expansive (for weeks after the accident), felt very, very close to my family, and had tremendous energy to share with my friends. (But) this was the hard, cold facts: 'Oh, my goodness, two people died here, I almost died.' I could see just how incredibly lucky and graced — I don't know what other word to use — I was to get out of there alive."

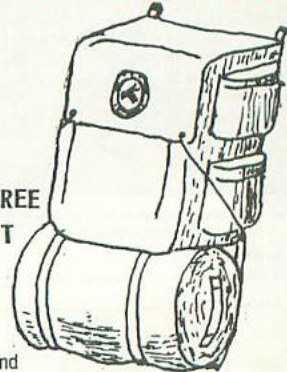
Miss Elder says she may someday return once more to the spot to leave a small sculpture as a memorial to her friends, Oakland veterinarian Dr. Jay M. Fuller and Jean Noller, also of Oakland.

Her long view of the accident now:

"In a lot of ways, it has turned out to be a boon to me. It always sounds like a peculiar thing to say because it was a tragedy for two people and their families. But it's been a boon in the sense that it was a tremendous personal challenge. . . it gave me a tremendous feeling of strength and security and, in a curious way, serenity."

Reprinted from the Los Angeles Times, by Jerry Belcher

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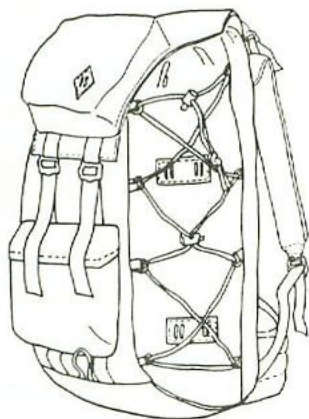
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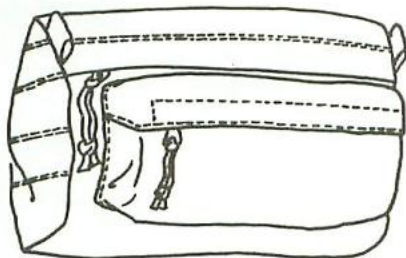
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NEWS AND RUMORS



HANDBOOK OF EMERGENCY CARE AND RESCUE

LAWRENCE W. EVENS, Author

A Book Review by **FRANK B. FUNSTON**,
Paramedic, Mendevac Co.

In his revised book *Handbook of Emergency Care and Rescue*, Lawrence W. Evens overviews the field of emergency medicine in an extremely professional way, with candid illustrations of paramedical practice and procedures, which leave very little to the imagination.

Within the 557 pages, all phases of emergency care and rescue are reviewed, discussed and illustrated in sufficient detail to serve as a reference for experienced paramedics or as an introduction to those interested in the field of emergency medicine.

This book "tells it as it is," with no holds barred with respect to what it takes to become a member of an emergency care organization. It gives a thorough overview of the academics that are expected of anyone entering the paramedical field as well as the physical aspect and requirements of the job.

Essentially, the author has zeroed in on the major problem areas that the emergency medical technicians and paramedics are faced with daily. Areas such as: heart attacks, head injuries, hemorrhaging, the respiratory system, shock, psychological problems and care, injuries to bones, joints and muscles as well as injuries from heat and cold, poisons and drugs not to mention the multitude of accident related problems.

In addition, much print is devoted to paramedical personnel and procedures, anatomy and physiology of the human body, emergency medical care, internal medical disorders, basic and advanced life support, emergency childbirth and a glossary of medical terms. To complete the emergency cycle, the author has also provided the "HOW" of rescue skills and techniques. Rescue tools and equipment as well as rescue problems are among the subjects that are covered.

Handbook of Emergency Care and Rescue is definitely a MUST for those either in the field of emergency medicine or interested in entering it.

Colleges and Universities offering courses in emergency medical care should strongly consider using this book as a text, since it covers the gamut of emergency care and rescue from "A to Z."

Since the field of emergency medicine is still in its embryonic stages, it is refreshing to read a book that addresses itself to the problems of the emergency technician and offers insight into the solutions that are effected each day by all of us who devote our lives to both the art and science of emergency medical care.

GLACIER! (continued from page 13)

With a Little Practice...

The mountaineer can with a little practice learn to read a glacier like he reads a map, avoiding zones of extension and contraction in the ice for flat and concave areas of compression. He should learn to look for slight sinking and sagging of the snow cover and variations in color of the snow as well as the more obvious lines of rupture on the surface. Careful route selection is the key to safe glacier crossing and special care should be taken to avoid areas exposed to ice falls and crevasses. Hanging tributary glaciers often terminate in ice cliffs overlooking the main glacier. Occasionally on glaciers different crevasse systems intersect to form serac zones which can also be extremely difficult to cross.

No discussion of glacial geography would be complete without mention of moraines which often provide a safe route across a glacier. The sides of glaciers are often bordered by ridges of rock and gravel which have been caused by frost action and plucking by the ice. These ridges are called moraines and may be terminal - at the end of a glacier; lateral along the sides; medial between two converging glaciers. On some glaciers there may be considerable rock debris and often it is impossible to differentiate between moraine and glacier. Care

should be taken in these zones as crevasses can be masked by sand and gravel. Occasionally moraines can be barriers presenting steep slopes of loose sand, gravel and boulders, which may be prone to rock fall during and after heavy rain. On some glaciers large boulders perched on pillars of ice are found, the rock protecting the ice underneath from melting. These features are known as glacier tables.

Where there is extensive surface melting, large streams will form and cut channels in the surface which may be difficult to cross.

Many techniques of crossing glaciers are found in textbooks and new equipment such as harnesses or mechanical prussickers certainly make it safer for the modern mountaineer. True safety however lies in one's own abilities, knowledge and safe judgment. One must develop a feel for the mountains and be able to read and understand them, selecting his route according to his needs and abilities rather than insulating himself against the challenge with a multitude of equipment and a set of pre-conceived rules. ■



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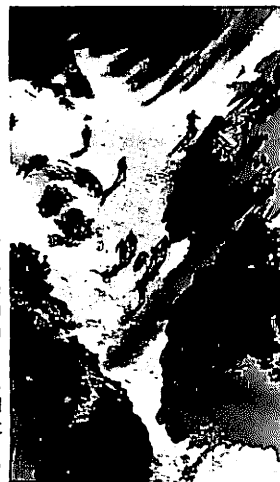
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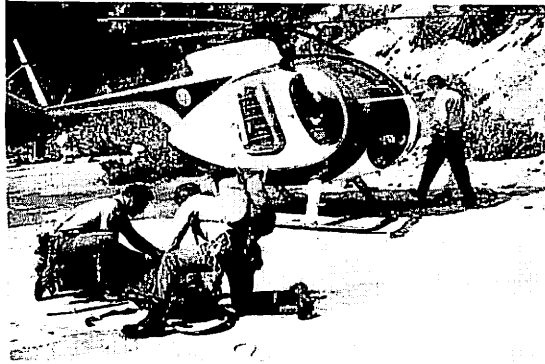
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"That Others May Live"

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