



What are they looking for?

By Jean Bullard

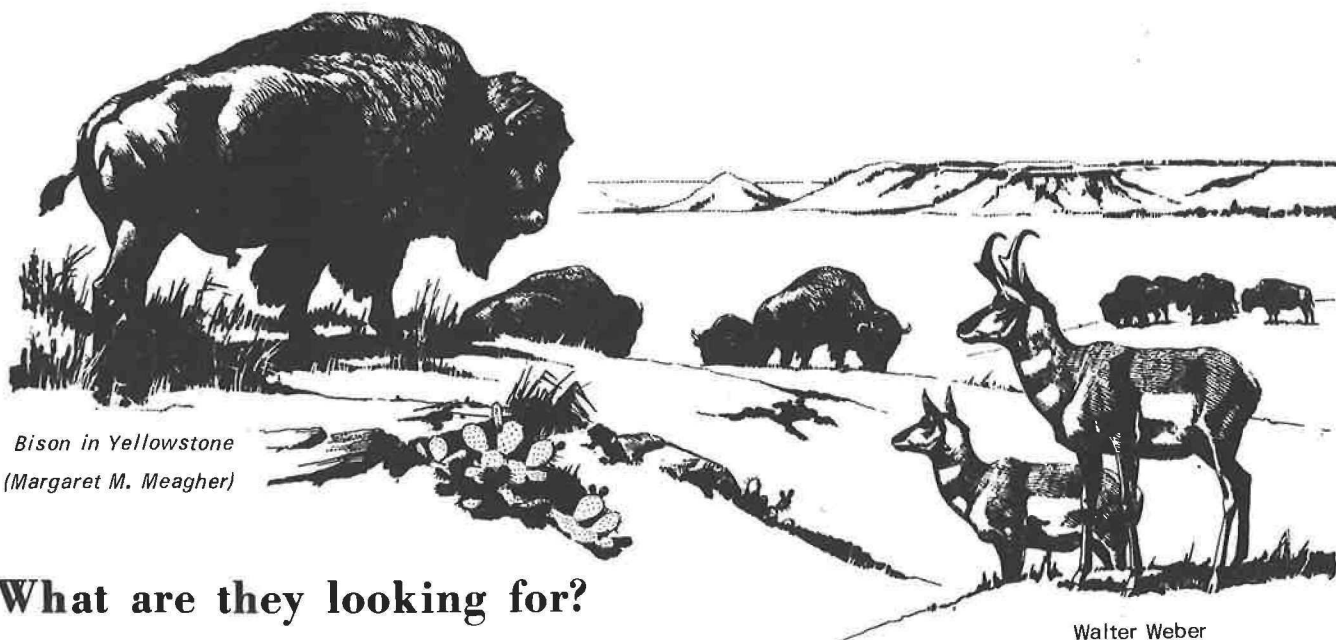
They put transmitters on grizzly bears, climb giant sequoias, scuba dive to delicate coral reefs, make laboratory studies of plants and air pollutants, rescue crocodile eggs from predators as well as take a scientific look at how man acts and reacts in our parks. "They" are the scientists who make field studies in our NPS areas.

Wolves were seen five times last winter chasing moose over precipices at Isle Royale National Park, a predator tactic never before observed. Durward L. Allen reported on thirteen winters of wolf-moose studies at a symposium, "Man and Nature In The National Parks," which was held in Philadelphia last December.

Some of the other papers by NPS researchers presented at the sym-

posium but not illustrated in this article include: crocodiles in Everglades (John C. Ogden); saguaros at Saguaro (Warren F. Steenbergh); giant sequoias at Sequoia-Kings (Bruce M. Kilgore); Virgin Islands reef ecology (Alan H. Robinson); barrier island ecosystems (Paul J. Godfrey) and four studies of various aspects of man in the parks (Neil H. Cheek, William L. Yancey, Donald R. Field and Raymond F. Dasmann).

(Cont'd on Pg. 2)



Bison in Yellowstone
(Margaret M. Meagher)

Walter Weber

What are they looking for?

(From Page 1)

"Two major things we are involved with – people and natural resources. A better understanding of both will give us the tools for good park management," explains NPS Chief Scientist, Dr. Robert M. Linn, who heads the Office of Natural Science Studies.

"Studies that we know are going on in the parks total from 700 to 800 during any one year. The NPS is actively engaged in supporting or actually doing the research on between 100 and 200 of these."

When professional scientists are doing their investigations and come across problems that need attention, they write a management recommendation to the person in charge of the park so that corrective action can be taken.

Information resulting from these studies usually ends up as a study report to management. Sometimes it will appear in a scientific journal or as an NPS publication.

"Situations vary in different parks," says Dr. Linn, "and there needs to be strengthened communication between the people doing the study and those utilizing the information."

"When a scientist wishes to do a study, he applies to the park manager who should approve each study," says Linn. "That way the manager knows what is going on in his park and he can decide whether such a study might be detrimental to his

area. The Office of Natural Science Studies acts in an advisory capacity if needed."

RSPs to the Rescue

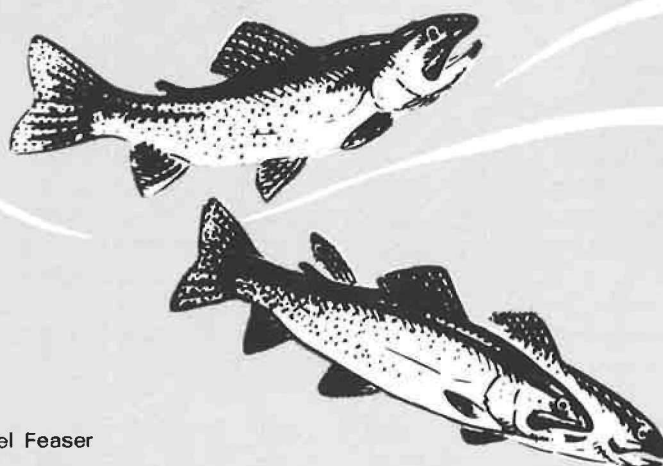
RSP (short for Natural Sciences Resources Studies Problems) is a form which a researcher must prepare to request permission to work in an NPS area. An agreement is then made by which both the area concerned and the Office of the Chief Scientist receive a copy of the study results.

An RSP will also document a research project going on in a park, whether or not it will resolve any current problem a manager might have. Results of such projects are then available if needed at any time in the future.

From GS-2 to Chief Scientist

"I started as a GS-2 Fire Guard at Isle Royale in 1952," Chief Scientist Linn says. The following summers he was a seasonal ranger while he finished his masters degree in biology from Kent State. While he was a park naturalist at Isle Royale, he completed his Ph.D. in plant ecology from Duke University. In 1963, he transferred to WASO as a research botanist, then served as deputy chief scientist and in 1968 became chief scientist of NPS.

In addition to serving as science and natural resources management advisor to the Director and his staff, the chief scientist administers the natural and social sciences studies programs of the Service.



Daniel Feaser

Cutthroat trout in Grand Canyon (Peter S. Hayden)

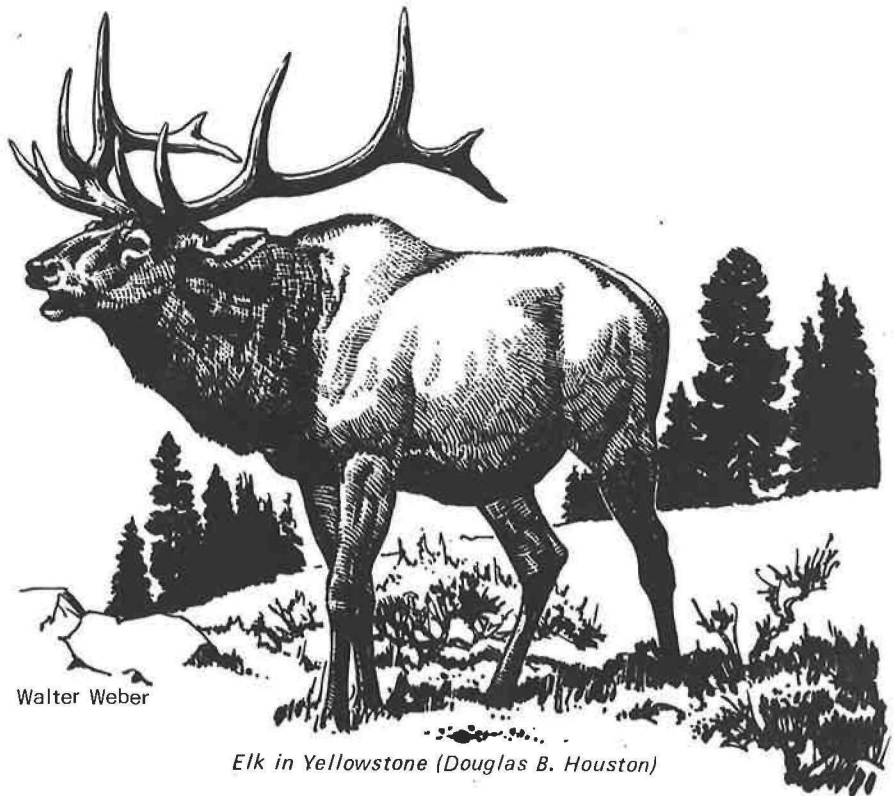
There is a functional relationship between the chief scientist and about 75 NPS people in the field, service centers, and regions who are all working on natural science related projects and studies - laboratory people, water resources people, sociologists, biologists (aquatic, marine and others), botanists, zoologists and geologists.

Following the increased emphasis on regional management of the parks, and the larger number of scientists in the Service, regional chief scientists have been appointed who will handle projects and problems in their respective areas. (NE-Nicholas Chura; SE-James Larson; W-Wally Wallis; MW-Jim Reid; PNW-Garret Smathers; SW-vacant; and NCP-Director of Ecological Services Laboratory, Gary Clemons.

"We hope not only to carry on further and even more sophisticated studies in the field," says Linn, "but we hope now to begin synthesizing and formulating the 'big picture' of natural resources management in the parks. This will be based on the many studies that have been done and the great amount of information that now exists."

100 Years of People in Parks

Man and Nature in the National Parks was the central theme of a



Elk in Yellowstone (Douglas B. Houston)



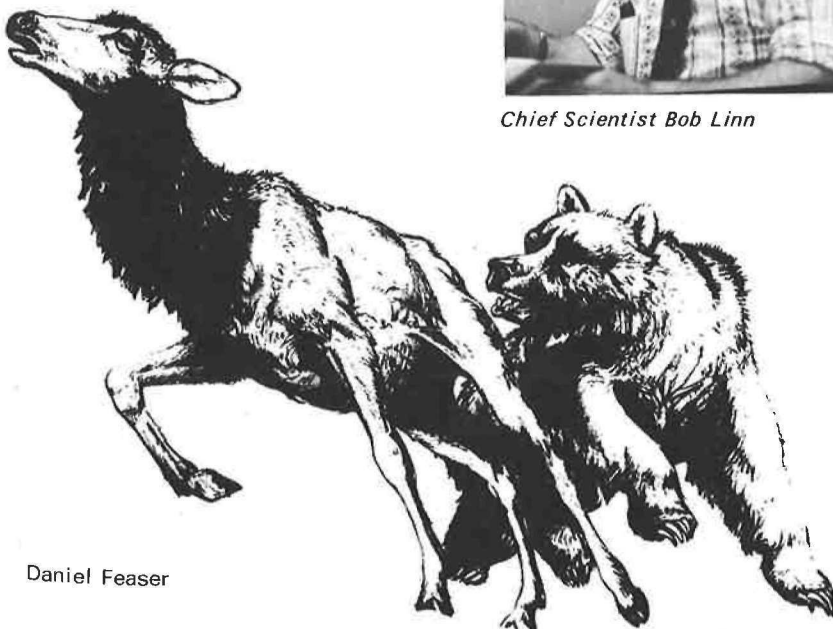
Chief Scientist Bob Linn

two-day symposium held by the office of Natural Science Studies recently at the American Association for the Advancement of Science in Philadelphia, an annual nationwide gathering of thousands of scientists from many disciplines.

In response to the Centennial Year, this event featured man in the parks over the past 100 years and present research currently being carried on in the parks. It dealt with the role of science in the development of the parks and what is being done today to put park managers on an ecologically sound basis.

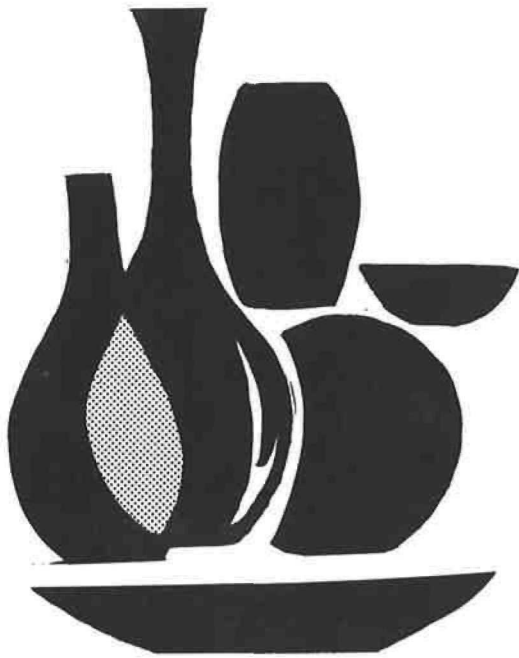
The success of the symposium is evident in the outstanding group of scientists represented and in the fact that the A.A.S. will publish a volume of the fifteen papers about research in the national parks. Eleven of them were by NPS researchers. All of these papers have now been prepared for publication.

Hopefully this volume, as part of the Centennial Year, will be printed in time for the Second World Conference on National Parks to be held next September in Yellowstone and Teton.



Daniel Feaser

Grizzly bears in Yellowstone (Glen F. Cole) and Glacier (Clifford Martinka)



MAKING CRAFTS COME ALIVE

By Carole Scanlon

Inger Garrison, wife of Lon Garrison, director of the Albright Training Academy, is an outstanding crafts woman — and a catalyst for the craft movement.

Informally, she has always put her hobby to work for NPS during Lon's 40 years in Service.

Now during the Centennial Year, Inger emerges as a consultant to NPS on arts and crafts. Under the living history program, she assists in finding craftsmen and women where needed; provides lessons with craft organizations; helps with standards for craft work; and provides an information exchange.

She will use her background in crafts to serve as a collaborator to parks who request her help in initiating "live" programs where the cultural story, or the daily lives of men and women can be emphasized.

So far Inger has:

- 1) Held discussions with NPS people in Santa Fe, Seattle, San Francisco, in many western parks and southwestern areas involved in interpretive programs in living history, crafts and culture

- 2) Had frequent contacts with local, state and other Federal people who have similar programs, and worked with museums and schools which have arts and crafts training

- 3) Visited Hopi, Navajo and other Indian reservations regarding living history demonstrations and craft work at Grand Canyon National Park

- 4) Attended the Tumacacori festival and Ceremonial Mass (the first in over 150 years), reviewing craft demonstrations as part of the festival; visited Zuni Pueblo for the annual Shalako; and spent one day at El Paso International Festival of the Arts as part of the Chamizal message

- 5) Arranged and carried to Philadelphia's Art Alliance (a privately endowed Phila. museum) a South-



Inger Garrison

western Indian Crafts Exhibition which began March 24 and will run for two months.

In June she will have a dialogue with the 24 members of the executive committee of the North American Native Women's Organization, not only on her program, but on the Centennial and NPS.

A native of Norway, Inger grew up in Alaska, and in her "adjunct NPS career" has always "lived with beauty."

She has specialized in ceramics and sculpture with extras in plastic fibers and environmental esthetics. She has organized and presented many community and state level shows, held office in local and state crafts groups, is a member of the American Crafts Council, and a charter member of the World Craft Council.

Her background includes work at the Fleisher Foundation in Philadelphia and the museum school of the Philadelphia Museum of Arts.

She has taught ceramics at Grand Canyon, Big Bend, Yellowstone and Omaha, and has exhibited her work in many major shows. Her environmental interests were evident on Earth Day on April 22, 1970, when she ran a speaker's bureau in Philadelphia, placing 36 speakers that day.

Inger believes that Living History and Arts and Crafts program can tie all other park programs together. In turn, she thinks that it is through live programs that all the good things NPS has meant all these years—"concern for environment-history - esthetics - inspiration - beauty"—can be brought to life in our second century of parks.

Inger feels that "my hobby is part of my personal concern for a more beautiful, vital world. It helps me keep attuned to park values and goals, and I'm happy to know where I can help."

Parks thinking of using Inger's expertise to initiate art-craft-living history programs should contact Inger directly, at Albright Training Center.

CENTENNIAL CALENDAR

April 17-31

WHEN	WHERE	WHAT
April - December	Seattle, Washington	National Park Centennial (NPC) educational programs for schools; film programs for libraries.
April - November	Grand Canyon NP	Recognition of each 250,000th visitor
4/16-22	DC -- Sylvan Theater	Earth Week
4/16-23	Cabrillo NM	Salute to Earth Week observance
4/19	Minute Man NHP	Commemoration of Patriots Day and salute to NPC
4/20-22	Monterey, Mexico	International Good Neighbor Council Directors Meeting salute to NPC
4/21	Phoenix, Arizona	NPC banquet
4/21-22	Wupatki NM	NPC open house -- judging of art contests at Wupatki and Sunset Crater
4/21	Jefferson Nat. Expan Mem.	Regional judging of NPC art/photo/ essay contest
4/22-23	John Muir NHS	NPC open house; Sierra Club hike
4/23	Colonial NHP	Cape Henry Day
4/23	NCP	NPC bike day
4/25	Theodore Roosevelt NMP	Celebration NPC and 25th ann. of establishment
4/27	G.W. Carver NM	NPC open house
4/27	General Grant NM, New York City	Celebration of General U.S. Grant's 150th Birthday and Salute to NPC
4/27	Andrew Johnson NHS	Celebration NPC and 30th ann. of establishment
4/28	Blue Ridge Parkway	Dedication Roanoke Mountain campground for the handicapped and salute to NPC
4/29	Prince William Forest Park	NPC student art festival
thru 4/30	Museum of Albuquerque Albuquerque, New Mexico	NPC art exhibit. "Artists in the Parks"



Under our hat

NAVAJO RUG RAFFLE: In honor of the Centennial, the women of the Navajo Lands Group in the Southwest Region are raffling off a finely woven, all-vegetable dyed rug from the Wide Ruins area near Hubbell Trading Post National Historic Site, Ariz. Approximately 30" x 50" in size, the retail price is \$295. Tickets (\$1 each) are available from Mrs. Arthur H. White, P.O. Box 539, Farmington, New Mexico 87401. Make checks payable to the NALA Women's Organization. The drawing will be held on July 11, 1972. Send donations and ticket stubs to Mrs. White no later than June 30. Proceeds will go to the Employee and Alumni Association's Educational Aid Fund.

SOLDIER AND BRAVE PUBLISHED:

A new hardcover edition of *Soldier and Brave*, part of the NPS history series, has been published. Subtitled "Historic Places Associated with Indian Affairs and the Indian Wars in the Trans-Mississippi West," the 453-page book was edited by Robert G. Ferris, an NPS historian. Order from the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402. Price is \$4.

NEW LANDMARKS ADDED TO REGISTER:

Seventy-eight National Historic Landmarks have been added to the National Register of Historic Places maintained by the Secretary of the Interior. The newest Landmarks are located in 21 states and the District of Columbia and were selected from three NPS studies. While not owned or managed by NPS, the Landmarks are a means of encouraging preservation of historically significant properties in the United States. For a description of the new Landmarks, see the April issue of the *NPS COURIER*.

JOB MOBILITY WITH IPA: The mobility provision of the Intergovernmental Personnel Act authorizes the temporary assignment of personnel between Federal, state and local governments and institutions of higher learning. The assignments can be made on either an exchange or a one-way basis, can range from as little as one week to the full two-year limit, and are mainly in administrative, professional and technical occupations. During the assignment, a Federal employee will either remain on the rolls of his regular employer or may be placed on leave without pay and given a new appointment by the jurisdiction to which assigned. (In the latter case, if the pay is less than his Federal salary, he will receive a supplementary salary from his Federal agency to make up the difference.) Federal employees assigned to other governments may continue to have the same rights and benefits they would have received on their Federal jobs—including accumulation of annual and sick leave and continued retirement, life insurance and health benefits coverage.

The first NPS employee to be assigned under the IPA is Luther C. Burnett, urban planner with the former Division of Urban Park Planning. He has been on detail since August 1971 as acting commissioner to the Virgin Islands Government Department of Conservation and Cultural Affairs.

The IPA coordinator in each region will maintain lists of interested employees. The coordinators are Dick Stanton, NCP; Ben Butterfield, NE; Sam Weems, SE; John Kawamoto, MW; Charles Boatner, SW; Theodore Owings, W; Glenn Gallison, PNW; Wendy Rayner, WASO.

ENOUGH NEWSLETTERS? Each employee—whether permanent, seasonal, temporary or part-time—should receive a personal copy of the *NPS NEWSLETTER*. Copies are sent in bulk to parks, regions and WASO offices for distribution.

POSTAL MATCH WINNERS: Sixty-eight rangers, technicians and park police officers recently competed in the third annual NPS postal match,

in which NPS law enforcement officers shoot prescribed courses of fire on their home ranges and submit the scores for compilation. The 1972 competition is now underway and will continue throughout the year. A classification system allows shooters to compete at their own level of ability. Details can be obtained from Rick Gale, staff park ranger at Lake Mead NRA.

The 1971 winners are: **Individual Practical Police Course:** Rick Gale, winner; Jim Protto, Yellowstone NP, 1st master; Bill Wendt, Albright Training Center, 1st expert; and Bill Ferraro, Lake Mead, 1st sharpshooter-marksman.

Individual Camp Perry Course: Larry Florea, White Sands NM, winner; Rick Gale, 1st master; Bill Wendt, 1st expert; Jerry Phillips, Lake Mead, 1st sharpshooter-marksman.

Individual Aggregate: Rick Gale, winner; Orville Rogers, Lake Mead, 1st master; Bill Wendt, 1st expert; and Bill Ferraro, 1st sharpshooter-marksman.

4-Person Team PPC: Lake Mead Green, winner; Blue Ridge Parkway, second. **2-Person Team PPC:** Curecanti NRA. **4-Person Team CPC:** Lake Mead Green, winner; Sequoia-Kings Canyon NP, second.

TRAINING FOR GARDENERS:

"This is the seedling for bigger things to come," puns Matti Tammaru, former personnel officer at National Capital Parks and new chief of the Division of Personnel Management, WASO. He's talking about the new gardener training program at NCP. Designed to train competent gardeners and provide upward mobility for laborers, the program began in January with 10 participants. They meet once a week for a year, and receive both classroom and field instruction. All began as W3-laborers, were promoted to W4-garden apprentices and will become W6-gardeners upon completion of the program.

The major theme is plant identification, and they work on projects that are examples of the kinds of activities that gardeners normally

do throughout the year. Remedial math and reading are also given, along with environmental awareness, safety and human relations.

"Some of them were scared of the classroom part," says Don Wallace, instructor and coordinator for the program. "But we explain that we're more interested in practical application. If they can do the job, I'm not to concerned if they can write about it in the book." A horticulturalist by profession, Don came to NCP in November 1971 after

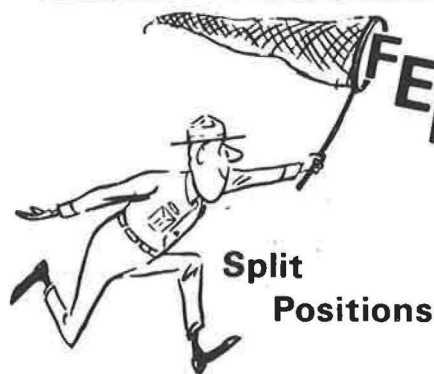
working for seven years in the NPS Job Corps program.

A staff of 200 work in the gardening field at NCP. They mow 5,410 acres and maintain 245,000 trees, 280,000 shrubs and 25 acres of ground covers (vines, ivy, etc.) The number of flowers handled last year was 3,430,000.

"There's a great need for competent gardeners at NCP," Don says, adding that a refresher training course is also being held for 30 gardeners beginning in April.



Don Wallace shows a cryptomeria (an evergreen tree from Japan) to members of the gardener training program at National Capital Parks. From his left are Paul Peoples, James Brody, Ellis Thomas, Don Bejarano and Harry Green.



The March 6th NEWSLETTER article, "A Talk With the Director," brought up a subject of great interest to many of us Park Service seasonals—the matter of split positions.

How should a married man with no children who is interested in a NPS

career, and who has had some seasonal experience, go about receiving consideration for such a position?

How many split positions have already been filled?

Jim Tilman
Shark Valley Fire Station
Everglades National Park

EDITOR'S NOTE: Jeanne Randall, chief of the Division of Recruitment and Employee Evaluation, says that

employees who qualify for any split positions should contact directly those parks in which they wish to work and ask if such a position is open. Hiring is done by the individual parks.

"Approximately 83 split positions have already been filled, with plans for more for the next fiscal year. Many seasonals as well as permanent employees were selected for these positions," Jeanne says.

Uniform: Men Have Problems Too

Dear Editor:

...The women should derive some satisfaction from the knowledge that they have at least achieved a kind of equality with the men whose uniforms are also:

- 1) Far more expensive than they need to be.
- 2) Made of materials that soak up dirt and grease stains, then must be dry cleaned since they neither wash well nor drip-dry overnight.
- 3) Hot and uncomfortable as well as generally impractical and not durable enough for field work.
- 4) Designed with a distinctive bonnet that: a) Comes in rigid oval shapes which insure contact with only the most prominent bumps of knowledge, b) Blows off at the slightest hint of wind, c) Droops in the sun, d) Sags in the rain, e) And contrary to popular rumor, will not cut brush.

Given the variables that must be considered in designing a uniform, I don't know whether the Service will ever come up with the perfect uniform. But as Kathleen has pointed out, there is always room for improvement and what she proposes does sound very practical. Maybe that's the problem.

Art Hathaway
Asst. Chief, I&RM
Coulee Dam
National Recreation Area



People On The Move

New Faces

ABEL, Arthur R., to Archivist, Edison NHS
 BUSZKA, Jerome E., to Refrigeration & Air Conditioning Mechanic, Independence NHP
 CRAWFORD, William D., to Administrative Clk, Kings Mountain NMP
 GIBSON, Ross S., Jr., to Legal Asst, Div of Legis, WASO
 HAMM, Celia N., to Project Clk, Plan & Des Mgr, Western Region
 HOPPE, Floyd George, to Maint Worker, Mount Rushmore National Memorial
 LANDGRAVE, Sharon V., to Clk-Steno, Voyageurs NP
 MAGUIRE, John M., to Prot & Pub Use Asst, Independence NHP
 SIMMONS, Beverly B., to Personnel Clk, Asst Dir Organ Dev & Manpower, Denver
 STEPHENS, Ralph G., to Program Spec, Div of Land Acquis, WASO
 SUTTON, Ronald W., to Pk Tech, Colonial NHP
 WEBER, Donna H., to Clk Steno, Contracting Officer, Denver
 YEARTY, Ed C., to Accountant, Off of Finance & Mgmt Cont, SERO

New Places

BRADFORD, Opal B., from Clk-Typist, Rocky Mountain NP, to Realty Clk, Asst Dir Oper, MWRO
 BROWN, James L., from Pk Ranger, Blue Ridge Parkway, to same, Antietam & C&O Canal Group
 COOK, Robert N., from Supv Horticulturist, NCP Group Central, to Mgmt Agronomist, Imm Off Ch Div of Maint, NCP
 DOUHAN, Carl J., from Pk Ranger, Glen Canyon NRA, to Supv Pk Ranger, Fire Island NS
 FREEMAN, Larry L., from Supv Pk Ranger, Everglades NP, to Mgmt Asst, Blue Ridge Parkway
 HOLDER, Richard L., from Program Officer, Off of Program & Budget, SERO, to Pk Ranger, Research & Consult Services, Denver
 PARO, John F., from Pk Ranger, Grand Teton NP, to same, Antietam & C&O Canal Group

PETERSON, Bertil R., from Realty Spec, Southeast Region, to same Asst Dir Coop Act, NERO

TAYLOR, Robert A., Jr., from Pk Ranger, Bighorn Canyon NRA, to Supv Pk Ranger, Herbert Hoover NHS

WARD, Christopher C., from Pk Ranger, Jefferson National Expansion Memorial NHS, to same, Herbert Hoover NHS

Out of the Traces

ARLAND, Susan A., from Clk Steno, Grand Teton NP

BENNETT, Daisy A., from Clk-Typist, William Howard Taft NHS

TUNNEL TO FREEDOM

By Dennis W. Kuenzel

Recently transferred Chief Historian Ed Trout made himself right at home at Fort Pulaski. By deciphering known information, he located the escape tunnel of Confederate officer prisoners.

The exact location had been vague and uncertain, even in the writings of the escapees themselves. There were no recorded notes from former employees in having discovered this tunnel to freedom. The escapees dropped down under the casemate flooring, in 1863, and burrowed through walls of brick. They came up and swam the moat to possible freedom, but their hopes were ended as alerted guards enclosed their escape route.

Shown with Historian Trout is Laura Marcantonio, an Armstrong State College work-study student at

CAREY, Joan S., from Sec (typing), Div of Recruitment & Employee Evaluation, WASO
 FEWTAILS, Louis J., from Pk Aid, Jewel Cave NM
 JACKSON, William T., from Tree Maint Foreman, Timpanogos Cave NM
 KLINE, Helen M., from Sec Steno, Div of Info Services, WASO
 MOTT, Lee E., from Private, US Park Police
 PRENCIPE, Nick L., from Captain, US Park Police
 ROSSINI, John E., from Maintenance man, Everglades NP
 SCHMIDT, Robert W., from Private, US Park Police
 WATERMEIER, Donald E., from Budget Analyst, Off of Org Dev & Manp, WASO

Fort Pulaski, the first known woman ever to traverse the escape route. Dennis W. Kuenzel is chief ranger at Ft. Pulaski.



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