

The Allegheny Trek

LIBRARY (PERIODICALS)

WVU DOWNTOWN CAMPUS MORGANTOWN WV-26506

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THE HIGHLANDS' FOOTHILLS

Here We Go Again

The W. Va. Rivers Coalition petitions to halt a major coal mining development until effective reclamation is feasible.

A petition designed to halt coal min- and steadily growing, 600-acre tract of Charleston serves as president of the

Randolph County to their confluence shed. with the Tygart River be declared offlimits to mining.

east of the Mississippi, a sprawling committee, while Perry Bryant of

ing in a braod swath of northcentral land at Ten Mile in Upshur County. West Virginia just east of the The Island Creek operations, coupled highlands has been filed by the W. Va. with mining efforts by the DLM Coal level of responsibility in resource Rivers Coalition, a consortium of the Company and mines of several management than is now prevailing," Mountain State's environmental smaller firms, form a corps of com- Webb asserted. "It is our contention panies which are attempting to The petition - comparable to one develop the minerals in the state's which unsuccessfully sought to halt north-central Appalachian's foothills. mining on the Shavers Fork of the The petition area does not include Cheat River in Randolph County — acreage which is proposed for mining proposes that virtually all of the by the Holly Grove Coal Company Buckhannon and Middle Fork rivers' nearby at Canaan in Upshur County. watersheds from their headwaters in Those lands are in a different water-

"Our petition makes it clear that we are not anti-coal or anti-resource The area, a total of 151 square development," insisted Rick Webb, a miles, includes what has been prospokesman for the W. Va. Rivers jected by the Island Creek Coal Com- Coalition which filed the petition. He pany to become the largest strip mine serves as chairman of the petition

Coalition itself.

'We are instead calling for a higher Webb asserted. "It is our contention that while mine reclamation in West Virginis has advanced in recent years, and coal can be mined in many

(Please turn to page 2)

FAIRMONT

Dirty Water

A 400-page document surveys the water quality of the Monongahela River basin — and finds it polluted by acid and sewage.

New data and analyses of the water plans which will examine all the quality in an 11-county area of West state's river basins. Virginia - the sprawling, 4,180-square-mile Monongahela River out of the study include: basin — is contained in a 414-page report released by the W. Va. Depart- management, especially through the ment of Natural Resources.

year in the making and is expected to change of data among state agencies. be the first of a new series of revised

The chief recommendations arising

the need for better data acquisition of data processing equip-The massive plan was more than a ment and the more thorough ex-

(Please turn to page 6)

CHARLESTON

Supreme Surprise

Justice Neely outlines a plan designed to prevent DLM-like suits from deterring citizen dissent.

CHARLESTON, W.Va. (UPI) - A "I would require that the defendant new regulation system to deal with be awarded the full costs of his the "free speech" guarantee of the defense as a matter of course without First Amendment has been outlined exception," Neely wrote. by Justice Richard Neely in a dissenting opinion.

The dissent was issued in a suit DLM Corp. had filed against environmental activist Rick Webb for libel. The coal firm said it was libeled because of a news periodical Webb published and because of allegations webb made to government agencies about environmental damage caused

The 4-1 majority decision written by Justice Darrell V. McGraw Jr. rejected DLM's case, said it had a "chilling effect" on a citizen's First Amendment rights.

"The effective exercise of First Amendment rights requires immunity from liability for good faith and negligent false statements, but there must be some protection he said. against the deliberate lie," Neely said "I an

in his dissent. "Some balance must be struck which allows the one to proceed uninhibited while also punishing those who hide irresponsible and malicious actions behind the guise of First Amendment freedom," said

Neely.

"Furthermore, if after the trial it becomes apparent that the plaintiff actually was using the legal process in the same despicable way that he had alleged the defendant had namely, to oppress citizens who have legitimately exercised First Amendment rights, then the courts should exercise their equitable powers to impose costs against the plaintiff in excess of the actual costs of defending the case."

Neely would also have permitted a trial court to order the advance of a defendant's costs associated with discovery of evidence sought by the plaintiff. "Should the plaintiff succeed (to get to trial) on the merits. these payments would be refunded."

"I am disappointed that the majority of this court did not take this occasion to fashion remedies which address more fairly both aspects of the First Amendment problem and allow redress for malicious attacks."

"I have outlined procedures that will essentially be cost-free to The core of Neely's plan was to defendants in these cases and, require the person bringing a suit threfore, should prevent suits of this Additionally, the cumulative effect of valuable information about how small similar to DLM's case - if he lost - kind from deterring citizens from many small generators disposing of generators are disposing of their to pay the legal fees of the defendant. exercising their rights," said Neely.

CHARLESTON

Some Weaknesses

Perry Bryant suggests some strengthening of the DNR's proposed hazardous wastes regulations.

By PERRY BRYANT

W. Va. Department of Natural Resources nave released 242 pages of draft regulations governing hazardous waste disposal in West Virginia.

These regulations generally follow the federal regulations developed state regulations, in part, close out of state. several important loopholes in the In turn, federal regulations.

reuse or recycle hazardous waste will be required to register with the DNR, and small generators will be required to keep records of the hazardous properly. waste they produce and how they plies to large generators. (Small agency generators are defined as those pro- time at large generators. After insurducing less than 1,000 kilograms of ing that large generators are complyhazardous waste per month.)

The manifest system is a multicopy form which is transported with the the small-generator exemption. hazardous waste from the generator to the licensed transporter, then to the DNR seem to have found an excellent permitted disposal facility. After the compromise between these two returned to the generator. If the quiring some record-keeping but not manifest system is complied with, other regulations required of large most of the hazardous waste will be generators, the DNR should be able to ly "most," however, because small without using large amounts of the generators are not required to send agency's personnel time. their waste to permitted facilities.

for some time. They are least likely to that they send a copy of their recordbe able to comply with complex and, keeping to the DNR at least twice a in some instances, costly regulations. year. These records should provide inhazarodus waste by improper hazardous waste. If, after reviewing

methods can have the same impact as these records, the DNR finds that The Water Resources Board and the one large generator improperly . Va. Department of Natural disposing of the hazardous waste.

Exasperation

The problem of small generators is exasperating in West Virginia since there are no permitted, off-site Another significant area where the under the Resource Conservation and disposal facilities. This means that all state regulations differ with EPA's Recovery Act (RCRA). Under RCRA, hazardous waste produced in West regulations is the state prohibition on EPA is required to regulate hazar- Virginia is either disposed of at the locating new hazardous waste dous waste from cradle to grave. The manufacturer's site or transported disposal facilities on wetlands. EPA

ersonnei snouid target their ing with state and federal regulations. then EPA and the state should repeal

The Water Resources Board and the permitted disposal facility receives arguments. By requiring small the hazardous waste, the manifest is generators to notify DNR and by redisposed of in permitted facilities. On- keep an eye on small generators

One important addition to the draft Small generators have been a regulations governing small target of some environmental groups genrators should be a requirement

small generators are improperly disposing of their waste, additional requirements - such as the use of the manifest system - should be imposed on small generators.

had dropped the prohibition of con-In turn, this means that small struction on wetlands, stating that the generators of hazardous waste in requriements under NPDES and the Perhaps most importantly is that West Virginia must comply with ex- 404 permit under the Clean Water Act small generators and persons who tensive and costly requirements for a provided adequate prevention of disposal site; transport their waste to significant harm to wetlands. Since licensed, out-of-state facilties; or the state does not have control over dispose of their hazardous waste im- the 404 permit it is logical for the state to prohibit construction of new Others have agreed that small facilities on wetlands. This prohibihave disposed of it. This stops short of genrators - at least for the time be- tion should not hamper industry since requiring small generators to comply ing - should be exempt. They argue wetlands comprise only a small fracwith the "manifest system" which ap- that limited EPA and state regulatory tion of West Virginia and are generally located great distances from industrial area.s

> A final difference between th federal regulations and the proposed state regulations is the prohibition of deep well injection by the state. Deepwell injection involves pumping hazardous waste 3,500 to 10,000 feet below the earth's surface. As I read the state's proposed regulations, they would not only prohibit future deep well injection, but would also stop present facilities from disposing of hazardous waste by deep well injection. It is unclear if any disposal of hazarous waste by deep well injection is presently taking place in West Virginia. There is some speculation that the Du Pont plant in Belle is using deep well injection for disposal of hazardous waste. This prohibition is certain to draw industry criticism and deserves strong support from

> > (Please turn to page 6)

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VOICE EDITOR

Judy Frank, P.O. Box 1121, Elkins, WV 26241 (636-1622).

Petition

Continued from page 1

areas without serious problems, there are places and codntions where coal cannot, at this time, given the currently available technology, be mined without serious, and irreversible, environmental degradation."

Excluded from the area proposed as off-limits for mining have been those areas where mining permits are already in force. In all, that includes well over 1,000 acres.

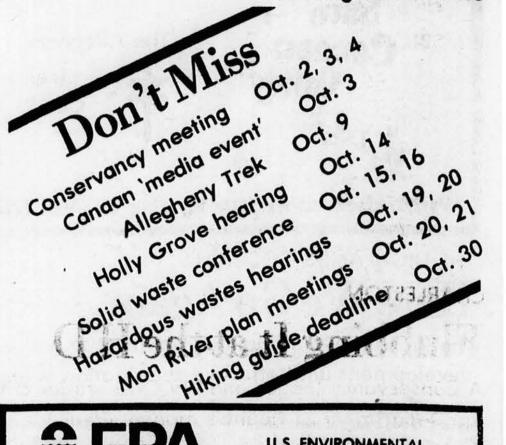
However, pending permit applica-tions of nearly 500 acres would be held in abeyance as of Oct. 11 if action on the permit proceeds. As outlined under current regulations, the state's reclamation commission has 30 days from the date the original petition was filed to determine if the petition is "frivolous" or not complete. From the time of that determination, the state has ten months to prepare a study which examines the merits of the petition. During that ten-month period, new permits for mining may not be issued.

Some sections of the area included in the Coalition petition have already been "declared" off-limits to mining in an administrative decision by David C. Callaghan, the director of the W. Va. Department of Natural Resources. Callaghan also serves as chairman of the state's reclamation commission. Earlier this year, at the same time he issued an additional stripping permit to the Island Creek Coal Company for their burgeoning operations at Ten Mile in Upshur County, he also informed them that until their current operations could demonstrate firm control of acid mine drainage, no more permits would be issued to them or other companies mining the area.

In fact, the DNR's internal decisionmaking process which led to that administrative "moratorium" are heavily-cited in the petition as the basis for the Coalition's contentions.

"The record of mining through the past ten years shows a consistent pattern of reclamation failure and severe pollution of otherwise high quality streams," the petition alleges. "Even the most recent operations in the petition area, employing the best practical, available technology, have not demonstrated the ability to meet the applicable standards of reclamation and performance . . . the petitioner also recognizes the ongoing efforts of the mining industry to develop mining methods that will allow mining in the petition area in accordance with the standards of performance and reclamation, and without the residual acid seepage problems cited in this petition. The pettitoner believes, however, that if indeed such a mining methodology can be developed, more than sufficient acreage is curently permitted in the petition area and therefore available to allow the mining industry to demonstrate that methodology."

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U.S. ENVIRONMENTAL PROTECTION AGENCY

WILL HOLD A **PUBLIC HEARING**

ON THE

HOLLY GROVE COAL CO. NPDES PERMIT APPLICATION LITTLE KANAWHA/BURNSVILLE DAM AREA, W.VA.

WEST VIRGINIA WESLEYAN COLLEGE, BUCKHANNON, WV OCTOBER 14, 1981, 7 P.M.

EPA has completed a Draft Environmental Impact Statement (EIS) concerning the National Pollutant Discharge Elimination System (NPDES) permit application submitted by the Holly Grove Coal Company to surface mine a 251-acre site located near Canaan in the Banks District of Upshur County, West Virginia.

Description of membership categories.

Individual membership:

Regular-\$10 from the rank and file who can give time and interest to the conservancy.

Associate—\$20 from those who can afford a small extra gift in addition to their interest in West Virginia's outdoors. Sustaining—\$50 from those able and willing to give larger amounts necesary to underwrite our programs. Senior - \$8 from conservationists over 65 years of age.

Organizational membership: Regular-\$20 from a small organization anxious to help the Conservancy score conservation gains in the Mountain

Associate—\$30 from a larger organization whose membership approves the efforts of the Conservancy.

Sustaining-\$60 from a large national organization which appreciates the importance of a highlands area to the peole of the eastern seaboard

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Membership category	(see	descriptions opposite)
Individual		Organizational
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Make checks payable to The West Virginia Highlands Conservancy.

PITTSBURGH

Promoting the Monongahela's Richness

Bruce Sundquist seeks contributions for a fourth edition of the hiking guide to the Monongahela National Forest.

By BRUCE SUNDQUIST

Forest and Vicinity" by early this copies printed around years-end. We'll be all sold out of the 5,000 winter. So it's time now to think about In order to keep our guide up-tocopies of the third edition of our "Hik- what additions and improvements to date, we need the help of all our hiking ing Guide to Monongahela National make before we get another 5,000 members to revise the existing trail

articles and other material.

the Monongahela, take a small same trip. Some examples of useful notebook along and jot down whatever information might include:

you learn that might be useful to other Next time you go hiking in or near hikers in planning and executing the

- how to get to the trail-head by

- the location of sources of water along or near the trail;

 possible campsite locations along or near the trail;

- directions for staying on the trail in areas where the possibility of getting lost exists:

 a description of the natural and scenic values to be seen along the trail:

a description of interesting side-trails;

- and anything else that comes to mind.

Send whatever material you collect (regardless of how insignificant it may seem) to me, Bruce Sundquist, 210 College Park Drive, Monroeville,

If you can recall any of the details of hikes and backpack trips you have taken in the past, send these along also. Everything should be in by Nov. Comments on ways to make general improvements would also be appreciated as would black-and-white photographic prints. They will be returned. Contributors to the guide eceive a tree copy as soon as it comes off the press.

If you would like suggestions as to areas that need exploration, contact me at the same address.

The way the Monongahela National Forest is managed depends a lot on the attitude of those who use it. By promoting non-consumptive uses of the forest, we build support for forest management that gives careful attention to the natural and aesthetic values in which the Monongahela is so rich.

CHARLESTON

Flubbing It at the HD

A Conservancy leader and WV-CAG staffer critiques the Department of Health's management of the state's trash crisis.

By PERRY BRYANT

third of West Virginia's sanitary land-that they would contract the task of fills have a life expectancy of more developing the state's plan to a conthan five years, and most of the land-sulting firm. fills in the state cannot meet state and By June, a Washington, D. C.-based federal regulations.

Only recently have they begun to the plan went to public hearings. emerge from that quagmire - and It was an apparent attempt to get even the emergence is slow.

The lead state agency for inspecting reluctantly, the HD agreed. landfills, issuing compliance orders and permitting new facilities is the solid waste division within the W. Va. Before the meeting, participants Department of Health (HD). Under were given what was believed to be disposal. The plan was to include pre- had been butchered by the HD. sent disposal practices and a For example, the section of the plan

haulers, without municipalities or counties (who without questioning other state agen- the HD; cies involved in trash disposal (the Department of Natural Resources' tions by the HD; division of water resources and the the HD sat down and wrote the state's tions; solid waste plan.

Disaster

It was an unmitigated disaster. inventory by the HD; Basically, it was a critique of why federal regulations wouldn't work in unpermitted facilities; West Virginia. As one knowledgeable person stated: "If you took out all the of plan.

and revise the plan accordingly.

One month later, the HD held a second hearing on the plan. The second plan was, for all intents and purposes, the same plan they had submitted a ing, I cannot remember a single complan.

It Will Not Do

the plan to EPA for their approval. West Virginia is facing a severe EPA's response was clear: the plan crisis in trash disposal. Less than a would not do. In fact, EPA decided

consulting firm had submitted Despite the urgent need to open new another plan to the HD. The solid landfills and the need to close open waste authority, a separate agency dumps, the state agencies responsible designed to provide planning, for trash disposal regulation seem technical assistance and funding for caught in a quagmire of red tape - new facilities, urged the HD to hold a and, in some instances, ineptitutde. meeting of interested parties before

some consensus on the plan. Almost

the federally-passed Resource Con- the consultant's plan. One week later, servation and Recovery Act (say during a public hearing on the revised "rick-ra"), the HD was supposed to state plan, it was revealed that the develop the state plan for trash consultant's very comprehensvie plan

timetable for closing open dumps as outlining the steps that were going to well as opening new sanitary landfills. be taken to meet the objectives of the The HD began their task about a plan was shortened from 15 pages to year ago. Without consulting trash four pages. The HD had eliminated asking from the consultant's plan:

- identification and funding for operate landfills in many areas), cleaning up promiscuous dumps by

- completion of landfill regula-

- revising the Public Service solid waste authority, for example) - Commission's rate-setting regula-

 evaluation of innovative landfill techniques by the HD;

 completion of a statewide site - enforcement activities against

and more.

The HD also eliminated a reserve editorial comment, you would have fund for the solid waste authority. The ended up with about two paragraphs authority had argued that they have the authority to float \$50 million worth During the public hearing on the of bonds to finance new landfills but draft plan in December of 1980, vir- have been unable to float the bonds tually every speaker attacked the pro- because they haven't established a posal. The HD promised to review the track record of repaying loans, nor do comments made at the public hearing they have a reserve fund to guarantee repayment on the bonds.

In butchering the consultant's plan, the HD had staked the improvement of the development of the state's solid of trash collection and disposal in waste plan by the HD, there are some West Virignia to the passage of two signs of improvement. Earlier this month earlier. It produced the same laws. One law would have required year, the HD started printing a results. As a participant at the hear- mandatory subscription by all West newsletter. This is certainly a step in . "Source Separation: A National ment made in support of the proposed viced by a hauler. The second law committee has been formed by the would have required county govern- HD. During the last advisory commitments to prepare county-wide solid tee meeting, they voted unanimously waste management plans. Why the to delete the passage of the two bills Despite all this, the HD submitted HD thought that the counties had the from the state plan and to reinstate

During the public hearing on the tinue to improve remains to be seen. revised HD state plan, reliance on two pieces of legislation as the cornerstone of the plan was attacked by merce and others.

The Sordid History Improves

Despite this long and sordid history

when they were having such trouble authority. Since then, the HD has acdeveloping a state plan is unknown. cepted those ideas. Whether they con-

the W. Va. Citizens Action Group, the around, the state's Solid Waste Recovery Programs." Subsequently, League of Women Voters of West Authority is about to sponsor a an 11:15 p.m. session on "Publicity" Virginia, the state Chamber of Com- resource recovery conference to be will be followed with an hour's break held Thursday and Friday, Oct. 15 and for lunch at noon. 16 in the Huntington Civic Center.

tion at 6:30 p.m. No fees will be charg- ject proposed for the Morgantown

presentation by the U. S. En-contemplated by the state's Solid vironmental Protection Agency Waste Authority. Virginians who lvied in an area ser- the right direction. Also, an advisory Perspective; that will be followed at 8 ed with a 3 p.m. poster judging contest p.m. with "Techniques of Material for children. Recovery Through Source Separa- Further information about the contion," again sponsored by the EPA. ference is available from the W. Va. The Thursday session ends at 9 p.m. Solid Waste Authority at 348-0585. The

The next morning opens at 9:15 a.m. executive director is Sam Colvin.

expertise to develop county plans the reserve fund for the solid waste with a presentation on "Materials Marketing Considerations" - that is how to sell whatever gets recyclea. Following a mid-morning 10:15 a.m. break, the conference will resume at 10:30 a.m. with a presentation on the While the HD has been fooling "Implementation of Materials

Slated for 1:15 p.m. is a discussion The conference will begin Thursday of the state's role in source separation with an exhibit opening and registra- and a subsequent discussion of a proarea of Monongalia County where a Beginning at 7:45 p.m. will be a resource recovery project is being

Concluding remarks will be follow-



MIDDLE MOUNTAIN

The Business of the Forest

The Forest Service becomes more aggressive

in its management of the Monongahela.

More than 100,000 acres of the Monongahela National Forest - a vast expanse of rugged mountain land high atop the Allegheny mountains has been targeted for major develop-ment by the U. S. Forest Service and will be the subject of an intensive,

two-day meeting in mid-October.
Commonly referred to as "Middle
Mountain," the vast area includes n we than an eighth of the total forest and scretches from a point halfway between Mouth of Seneca and Elkins on the Randolph-Pendleton counties' border to U. S. 250 near Frank in Pocahontas County.

There, growing for that last twothirds of a century, have been vast stands of hardwood timber valued if there were a market for it - at literally millions of dollars.

Finding a market, forestors say, has been the problem, and that is what the mid-October meeting in Elkins is all about. It is slated for Oct. 14 and 15 and will include a day "on the mountain" as well as a day back in Elkins in a round of staff meetings.

"West Virginia's hardwood forests are presently under-utilized," accor-ding to forestor Steve Yurich of the Forest Service's regional headquarters in Milwaukee, Wisc.

"Growth," Yurich noted, "exceeds removals three-to-one for growing stock and two-to-one for sawtimber. For this resource (on Middle Mountain) to approach full productivity, increased utilization of small and lowquality hardwoods must be achieved."

Yurich's reference, forestors in Elkins explain, is especially applicable on Middle Mountain where some of the Monongahela's most productive soils are located. There, the trees are crowded so close together that they have begun to impede each other's growth. Only if the smaller ones are harvested - and soon - can the vast acreage reach its full poten-

That harvest may be difficult to arrange however, inasmuch as the housing industry's slump has slowed or closed sawmills throughout the region. Even those wood industries which have markets immune to the current slump are not using the highlands' resources.

Scheduled to be brought to bear on the problem has been a panoply of expertise across a broad range of disciplines. Not only will research forestors from two states be attending the two-day meeting at Elkins, but also representatives of the nation's forest industries as well as the Governor's Office of Economic and Community Development and the state Department of Natural Resources.

"The results" of the meetings, asserts Yurich, "will have application to many others areas in the state and the East.'

Special participants and resource people attending the meeting will be forest scientists from two federal research labs in West Virginia, one at Princeton, the other at Parsons, as well as W. Va. University in Morgantown. Independently, though in a coordinated fashion, all three have been engaged in an on-going assessment of the problems of Middle Mountain's usage.

Scientists at the Forest Service's

experimental laboratory at Princeton, for instance, have developed in the past few years a new technique for utilizing smallerdiameter hardwood trees such as those which need to be harvested from Middle Mountain. With a technique dubbed "SEM" in which glue is used to bond smaller pieces of hardwood into large sheets of any size, it may be possible to find a commercial use for hardwoods such as are languishing along the mountains' ridges. Scientists at Princeton have even gone so far as to open up a test harvesting site in the mountains east of Glady in Randolph County.

Similarly, scientists at the Nor-theast Forest Experiment Station at Parsons are planning a research pronorth of Bartow.

Able to provide an overview of the area will be a team from W. Va.

University which has been studying the area to determine what its resources are and how they might be most effectively tapped and expand-

Major questions slated to be addressed are:

- What silvicultural treatments ject on a test site about eight miles are planned for Middle Mountain and can relevant silvicultural treatments be demonstrated to non-industrial private forest owners?

- What equipment is presently being used to harvest timber comparable to that found on Middle Mountain, and are the silvicultural treatments proposed for the area compatible with today's harvesting equipment?

- Is cable logging a viable technique for the area - and can it be demonstrated?

- What can be done with the (Please turn to page 6)



Computers in the Trees

A new computer program and an array of technology are about to be used to produce the most comprehensive plan

in the history of the Monongahela National Forest.

All the power of the largest computer in the United States will zero in on the Monongahela National Forest within the next year as forestors in Elkins prepare to produce the most ambitious plan for the use of the Monongahela National Forest in its history.

Currently underway is the most complete study of the Monongahela's 800,000-plus acres ever undertaken, a massive study of every attribute professional forestors as well as the public have been able to conceive.

The computer study is designed to lay out — in mind-boggling detail — every possible option for managing the forest's 800,000-plus. Included in the computer analysis — FORPLAN, it's called for short — will be information about "very nearly every tree," according to Danny Houmand, a computer analyst employed by the Forest Service in Elkins. Houmand, with

operations research analyst Roger McCay, is coordinating the "on-theground" work in West Virginia, then plugging the forest into a "mainframe" computer in Ft. Collins, Col.

There, a third-generation computer program is ready to arrange information into a vast "matrices" or "arrays," easily the most ambitious effort to catalog the nation's national forest resources ever undertaken. In all, some 150 national forests spread

all across the nation will eventually be feeding data into Ft. Collins. The breadth and depth of the information is so great that even that facility will not be able to handle it all. Ft. Collins, forestors expect, will have to be tied into two or three other computer banks elsewhere in the nation as the system of national forests begins pouring in their data and fetching back the analyses during the next year to 18 months.

What FQRPLAN is designed to do, according to Gil Churchill, a forest planner on the Monongahela's administrative staff in Elkins, is tell forestors what the impact of any plan they devise would be.

"Let's say we wanted to emphasize the production of wildlife — turkeys, for example," Churchill says. Already in the computer will be everything the Forest Service knows about turkeys: what kind of food they eat and where it comes from, what kind of habitat they thrive in and where it's located, who and where their predators are . . .

With that as background — and with literally millions of other bits of information about everything from soil conditions, how high every tree is, what the weather's like, how steep the land is . . . with that as background, Churchill can sit down at a high-speed data terminal linked by telephone to Ft. Collins and ask:

"What will be the effect on all other aspects of the forest if turkey production is maximized?"

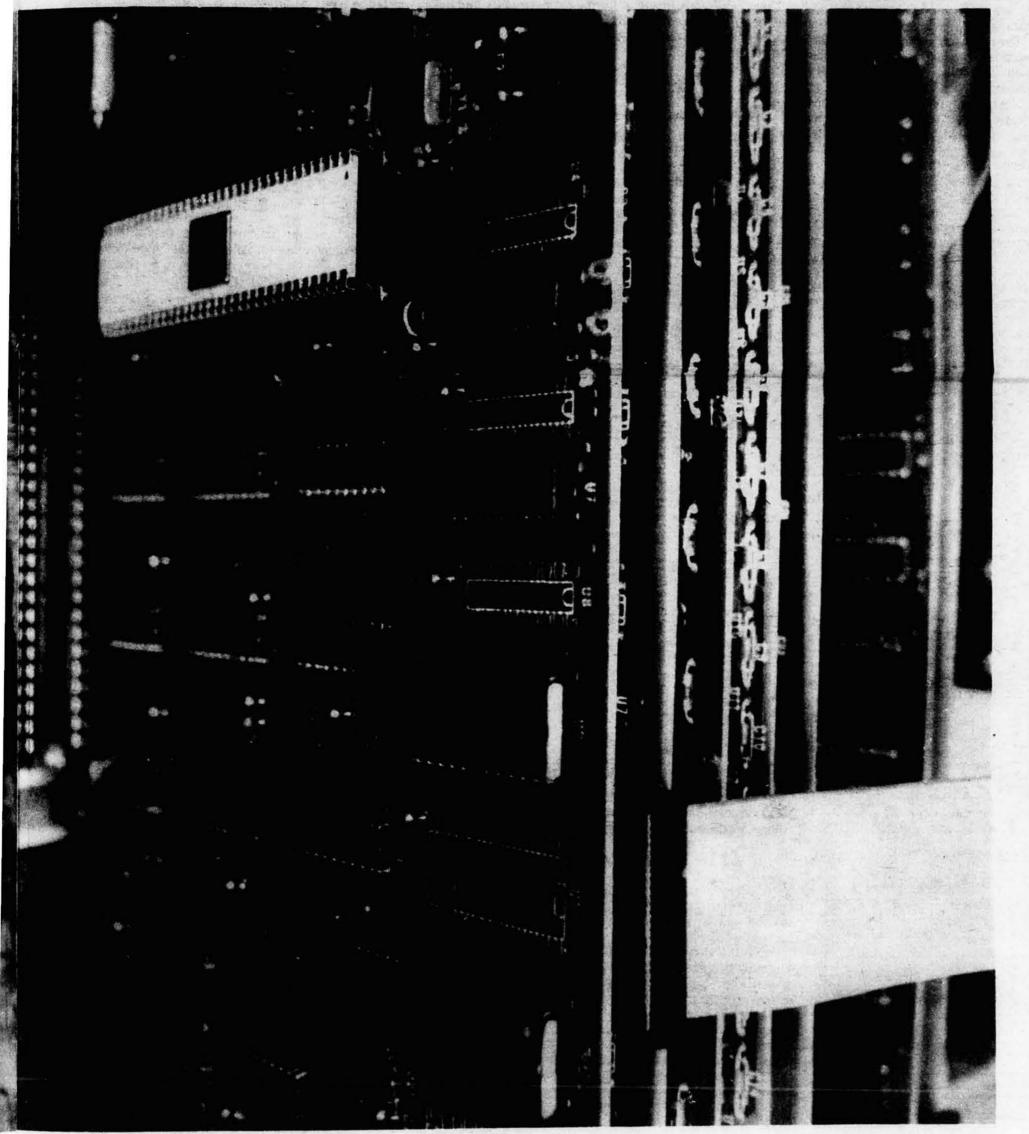
What's spit back, Churchill agrees, will be a badly-skewed management plan, but the point the example makes is that FORPLAN can produce thousands of management plans in a comparative twinkling. Producing such plans "by hand" — that is, without the aid of the computer — would be so cumbersome that it would just never get done. As a result, forestors point out, some possible management options might be missed — perhaps even the "best" one.

Finding that plan — the "best" way to manage the Monongahela's sprawling acreages — is what FORPLAN is all about. In the end, after all the information has been fed from the forest headquarters in Elkins to Ft. Collins, Churchill expects there will be some 60 to 80 "runs" of the program. Each will add a new wrinkle to what forestors and the public have determined is what they want the forest to produce: whether "production" is timber or wildlife or wilderness or any of hundreds of other options or combinations of options.

What it means, Churchill explains, is that both forestors and the public will be able to examine — in as great a detail as they like — what the impacts of any management plan might be.

If forestors want to tap a mountainside's reserves of 85-year-old white
oak, a few computer punches in
Elkins and a lot of number-crunching
in Ft. Collins can tell forestors what
impact that will have on the
economics of the rest of the forest;
whether the state's bear hunters are
likely to raise the devil about habitat
destruction for their prize game; how
long it will be before the timberedover area can re-grow and what impact that time lag will have on the
total production of the forest in the
years to come . . . the list is endless.

But as Churchill points out, one of the prize payoffs will be in the area of economics and efficiency. As money becomes tighter and the need for efficiency increases, FORPLAN should provide a lot of answers. After a management plan is chosen — and after it's pruned, modified, massaged and refined — then the same program can be used to demonstrate how to implement the plan most efficiently.



Snobbery

(Continued from page 8)

developments on rural communities in Appalachia, a socio-ecnomic survey was conducted of 482 residents living near the site of several proposed energy development projects in northern West Virginia. The objectives of the study were to obtain asetine socio-economic and attitudinal data of the people to be afected in order to monitor changes in these variables that occur with development, and to determine the differentials in characteristics of residents who perceived the developments as beneficial to the area as compared to those who did not perceive benefits from energy-related development in the area.

Business

(Continued from page 4) small hardwoods found on Middle Mountain and other West Virginia forestlands? Is it profitable now and what can be done to improve the profit picture?

Does local industry plan to expand and can the expansion use timber from Middle Mountain?

What industries have been targeted to increase their demand for the type of timber to be harvested?

Are industrial sites available near Durbin and does that community favor expansion and new industry?

What Forest Service officials are looking for, they say, is a two-day convocation to organize and develop the information necessary to determine what the problems are with developing innovative harvesting and marketing techniques to make use of the multi-million-dollar lode of mountaintop hardwood.

We want, wrote Yurich, to "develop an action plan."

"Residents with lower levels of education, those with blue collar and service occupations, and those who have energy-related jobs perceived the projects as beneficial to the area significantly more often than highlyeducated residents, those with white collar jobs and those not in energyrelated occupations.

"Residents who are proud of the area and those who think it is a good place to raise children also perceive the projects as beneficial. However, residents who feel that air pollution and water pollution are problems in the community do not think the area will benefit from the energy developments. Similarly, those who are more concerned with adequate energy and economic growth envision the developments as beneficial significantly more often than those who are more concerned with the environment.

"The research findings can be interpreted in terms of the dichotomy between tangible, economically measurable benefits and costs (e.g., employment opportunities, increased business activities) versus intangible, generally unmeasurable benefits and costs (e.g., pollution, inadequate public services) associated with economic development. Individual perceptions of the potential impacts of developments inherently involve a tradeoff between these two types of associated benefits and costs. Our findings appear to indicate that the tradeoff points vary according to the socio-economic characteristics of individuals. Although these tradeoff points could not be quantified in our research, the residents' attitudes toward energy development provide important insights into the socioeconomic adjustment process of Appalachian communities facing potential energy-related developments."

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Weaknesses

(Continued from page 1)

Weak Points

Despite the improvements in the a disposal facility will be closed; state regulations, there are some weak points - primarily because there are weak points in the federal regulations.

As is the case in many federal regulations, there is a clear distinction between existing facilities and new facilities. Under RCRA, facilities in operation before Nov. 20, 1980 and which submitted what is called Part A of the RCRA application were granted interim status permits. Facilities which wanted to open after Nov. 20, 1960 had to submit Part B of the RCRA application. Additionally, existing facilities were to be contacted by EPA Part B applications.

ample, Part B of the RCRA applica- by DNR require submission of these tion requires:

Water

Continued from page 1

the need for continued federal funding for sewage construction. The need is pegged, in fact, at \$43 million at a time when the Reagan administration is seriously considering eliminating such funding.

the need to be more costeffective in the monitoring of water quality. The plan proposes that consideration be given to reducing the number of permanent water quality monitoring stations.

the need for coordinating studies of water quality management, ground water strategies, the state's hazardous waste program and water use studies.

- the need to tap the millions of dollars available under the 1977 Surface Mine Control and Reclamation Act, dollars which can be used to help abate old acid mine drainage problems.

The plan's numerous reports also document the fact that violations of water quality standards were found at nearly one-third of the sites where water quality samples were taken. The most frequent violations were those associated with acid run-off from abandoned mining operations and for fecal coliform bacteria, the presence of which usually indicates improper sewage disposal.

Slated for Oct. 20 in Elkins and Oct. 21 in Fairmont have been two public information meetings designed to explain the report. The Elkins meeting will be held at the DNR's operations center, while the Fairmont meeting will be at the Fairmont district office. Each is slated for 7 p.m. Comments on the draft report will be accepted until Oct. 31. Copies are available for public inspection at the DNR offices in Elkins, Fairmont and Charleston.

Alchemy

(Continued from page 8) buch says there are fears that the salmon and other fisheries could be

decimated.

While the Otter Creek system was orignally designed for low-level kinds of acid, Dr. Genscoy's enhancement of the process may make it feasible for the more intense problmes of acid mine drainage as well. The prototype already installed on Otter Creek is six times as effective as the old drums and the year-long design project that Genscoy and his students are undertaking is expected to boost that figure and Bike Trail's proponents and even higher.

cies;

- a closure plan which states how

disposal facility is closed to prevent ty discharge of hazardous waste into the environment;

- the projected cost to implement closure and post-closure plans;

- and an insurance plan required by EPA.

None of these requirements,

however, are convered under Part A

of the RCRA applications.

Most importantly, existing facilities should be required to submit closure and post-closure plans. Currently, existing facilities are required to have or the DNR and requested to submit developed closure and post-closure plans but the plans are only kept at There are significant differences the facility and not submitted to EPA. between Part A and Part B. For ex- Nor would the regulations proposed plans to the DNR. Both the current regulations are in place. EPA regulations and the proposed DNR regulations require only that these plans — plans which are supposed to have been developed already be submitted to EPA or the DNR 180 days before the facility is planned to be closed.

Closure Funding

The importance of these closure and post-closure plans cannot be overemphasized. EPA's regulations, and the DNR's proposed regulations, require a trust fund (or similar financial arrangement) be established to ensure that funds are available to close and monitor a facility after it is closed, even if the company goes bankrupt. closure and post-closure plan. Thus, if number is 346-5891.

 contingency plans for emergen- a facility goes bankrupt prior to closure and their plan is insufficient, the monies needed to close and monitor it will not be available. In this a post-closure plan which case, it is likely that tax dollars will be states what steps will be taken after a needed to close and monitor the facili-

> EPA's justification for not requiring existing facilities to submit closure and post-closure plans to them was the lack of staff time to review these plans. I would suggest a compromise which will require that existing facilities submit their plans to the DNR for review - but not ap-

> proval unless a plan were found to be blatantly inadequate. The other step needed to be taken to ensure that sufficent trust funds are established to protect human health and the environment is for the DNR to exercise their authority to require submission of Part B - including closure and post-closure plans - from existing facilities shortly after the

> > **Public Hearings**

The public hearings on these pro-posed regulations will be Oct. 19 at the Monongalia County Courthouse in Morgantown and on Oct. 20 in Conference Rooms A and B at the Department of Highways Building at the State Capitol Complex in Charleston. Both meetings are scheduled for 7 p.m. Written comments will be accepted until Oct. 30. Copies of the proposed regulations are available from the Board of Water Resoruces at 1201 Greenbrier Street in Charleston, WV

Questions about the proposed regulations may be directed to Perry The amount of money placed in the Bryant at the W. Va. Citizens Action trust fund is dependent upon the cost Group at 1324 Virginia Street East in estimates developed udner the Charleston, WV 25301. The phone

Greenbrier

(Continued from page 7)

agencies' ability to condemn land scheduled for development.

Other land acquisition being suggested by the study would include 20 to 30 access areas. These access areas would be between two-and-one-half to four acres. Thus, the access areas would encompass at maximum 120 acres of land.

At the Marlinton meeting, there wasn't any opposition expressed to the proposed acquisition policy. However, about half of the local property owners expressed opposition to scenic designation around Marlinton. The main objections seemed to be that the property owner would be prohibited from building secondary homes or camps along the river. Hazel did say that private cam-pgrounds would be allowed, since there is a need for additional camping areas. It should be remembered that new buildings would be allowed if they could be screened from the river. Other objections were based on antifederal government control of people's lives.

Perry Bryant presented the Conservancy's position. He also presented basically the same position on behalf of the W. Va. Rivers Coalition and the W. Va. Citizens Action Group.

At the White Sulphur Springs meeting, about 40 folks who attended were about equally divided. The most vocal opposition came from Pocahontas residents and W. Va. Hills and Streams members. Support came from the Conservancy via Skip Deegans, the Greenbrier River Hike private citizens. Lots of Izaak Walter

Leaguers attended but were silent. Acme Limestone's management and their lawyer asked questions but expressed no position. They operate a quarry at Ft. Spring, north of Alderson. Generally, most people were there to ask questions and obtain more information. Opposition was generally based on loss of property through condemnation and feelings of antipathy for big government and state government.

At Hinton, there was some opposition expressed to federal involvement from riverside property owners upstream of Hinton. Reliance on state protection is unwise because the W Va. Streams Protection Act does not preclude federal dams.

Some very vocal opposition included reference to the poor management of Bluestone reservoir area, as well as the need to cut the federal budget.

But overall, most comments favored the Forest Service plan and federal management.

A number of "average citizens" spoke in favor of protection as well. Wilbur Farly, who has been very active in fighting the Bluestone hydroelectric project, was opposed to any dry dam. Others stressed the importance of protecting the river's unique, unspoiled quality.

Overall, the response was favorable, with some voices from riverside property owners and business interests against the proposal. The Hinton area has been a traditional protectionist community towards its rivers, and significant local suport, both organized and not, appears to exist for the Forest Service proposal in that area.

No Wolves for West Virginia

The state's Department of Natural Resources nixes the idea of using the highlands as a new hunting ground for wolfpacks.



West Virginia's highlands might have been prowled by wolves again had it not been for the stiff opposition of the state's Department of Natural Resources.

The suggestion that the Mountain State's hinterlands might serve as a new home and hunting ground for the endangered species was originally put forth by a "timber wolf recovery team." Their work was sponsored by the U. S. Fish and Wildlife Service.

The state's DNR admitted that the wolf recovery team's proposal pro-perly earmarked the highland mountains of Virginia and West Virginia on biological grounds. However, in a letter penned by Jim Rawson, the state's chief of endangered species, the idea was blasted as likely to endanger another "species" — the DNR itself.

Rawson wrote to the chief of the divison of wildlife resoruces Dan Cantner that past experience with resurging populations of both bear and cougar had indicated that "even the mention" that the rebeing considered "would generate creased. panic, threats and adverse public In all, reaction."

commented recently, and he pointed out that the recovery team's projections only called for transplanting wolves at such a time as surplus populations were available. "They're not going to drain a good population to take a chance" on establishing them elsewhere, Rawson noted.

The 79-page report which included reference to West Virginia's eastern and Virginia's western highlands noted that the eastern timber wolf is now confined to an extreme, northwest corner of its original range. That range centers on about 10,000 square miles of Minnesota's northwoods and extends across about 30,000 square miles. As the report notes, the animal was wiped out throughout the rest of the nation because of intensive human settlement; direct conflict with domestic livestock; a lack of understanding about the animal; fears and superstitions, and an "overzealous control program." The animal was afforded legal protection under the Endangered Species Act of 1973, and the creature into its former habitats.

"Without public support, based on than 1,200 animals surviving. accurate knowledge," the team con"Human exploitation," the report cluded that the plan for the wolf's notes, is believed to be the major recovery "will remain only a paper document."

establishment of the timber wolf was reason why their numbers have not in-

In all, eight areas were to have been investigated as possible sites for the "I can't see us doing it," Rawson recovery of the species. They included, in addition to the northern section of the southern Appalachians (the West Virginia-Virginia forests), the southern section of the southern Appalachians in Tennessee, North and South Carolina and Georgia; small areas in northeastern and northwestern Maine; another in upper New York State's White Mountains area; and adjoining areas in Michigan and northern Wisconsin. The wolf originally ranged from northern Florida, northwest to Minnesota and northeast to Maine.

> However, at least one member of the recovery team filed a so-called "minority report" in which he contended that the wolf was "neither threatened nor endangered" within the state. The assertion that it was endangered prompted the formation of the recovery team in the first place.

The recovery team's report concludes that because of "the amount of misunderstanding" about the wolf, a public education program should

ELKINS AND ALONG THE GREENBRIER

Quiet Pondering on the Greenbrier

The Forest Service grinds its way toward a DEIS on the Greenbrier slated for release in the spring of 1982.

brier River into the national system of comments, he said. "wild and scenic" rivers.

surprised at two things:

- that an active environmental of the river under "wild and scenic"

— and that there was no official ly, the government would probably comment made by the nation's major start looking elsewhere. environmental groups, including, but

"I guess they're waiting for the draft EIS to come out," Hazel surmised, but he also noted that meshing suggestions into an overall plan is

The environmental group which opposed the Greenbrier's inclusion. W. wanting the river included.

work this fall assembling a draft en- in correspondence with some 80 lan- preponderant characteristics of the 75-year-flood (the worst flood likley to vironmental impact statement which downers along the riverbanks who river - no McDonaldses plunked into occur during any 75-year period), the managing an average of 1,000 feet on is expected to be ready by the spring wrote to ask specifically what effect the middle of a picturesque, tree- dry dam would flood the entire 13-mile either side of the river. Under the of 1982. It will outline all the possible wild and scenic designation might shrouded riverbend. alternatives concerning the inclusion have on their own property. Hazel of a 200-mile-long stretch of the Gren- responded to each with individual

Among the conclusions which have Chief among those forestors wrestl- already been reached has been that ing their way through the paperwork along the entire length of the river (if is John Hazel who confesses that, it were to be designated) there would after the U.S. Forest Service held its only have to be some 30 access points hearings in Marlinton, White Sulphur — and half those would be on land now Springs and Hinton, he was a little owned by the Forest Service. Total acreage of the access points would likely be under 100 acres in all - and group actually opposed the inclusion all those, Hazel says, would be acquired on a "willing-seller" basis. That is, if the landowner said no firm-

Even this early in the project, not limited to, such normally active however, there are indications that groups as the Sierra Club, the finding access points is not going to be Audubon Society and the Nature Con- difficult. Preliminary discussions with the W. Va. Department of Natural Resources, the state agency developing the Greenbrier River Hike-and-Bike Trail, indicated that many proposed federal and state aceasier early in the planning process cess points may be coincident. Additionally, at least two private landowners who had plans to develop campgrounds along the riverbank Va. Hills and Streams, is to be invited have expressed an interest in to meet with Hazel and other forestors cooperating with the Forest Service to flood protection project. to discuss the reasons for their not make their proposed campgrounds into the access points. In turn, the purchase (through eminent domain, if In addition to the proposed con- owner might grant the Forest Service necessary) 20 acres in order to build ference, with W. Va. Hills and an "easement" to confine his develop- the dry dam. The dam would be 1,000

detrimental to those species."

THE MEETINGS By Perry Bryant, Skip Deegans and Jim McNeely

The Corps of Engineers revealed some of the details for a dry dam on the Greenbrier River above Marlinton during three meetings on the possible inclusion of the Greenbrier River under the Wild and Scenic Rivers Act. The Corps requested that two exceptions for inclusion under the Wild and Scenic Rivers be made for the Greenbrier River. The first exception would be for a 13-mile section approximately four miles upstream from Marlinton. The second would allow for a local

At the first site, the Corps plans to

Forestors in Elkins are hard at Streams, Hazel has also been engaged ment to harmonize with the feet wide and 124 feet high. During a river.

stretch above the dam. gets the designation," Hazel said one downstream of the Bluestone Dam. It If the entire river were protected commenter pointed out, "it may be should also be noted that a dam will under the various designations, 69 per inundate the Greenbrier River Hike cent of the 48,000 acres of affected and Bike Trail - a fact pointed out at land is under private ownership. Conthe White Sulphur hearing.

> unanimous opposition to the dry dam. only protected from the headwaters to If anyone at the meeting supported Anthony Creek, 52 per cent of the land the dry dam, they sure didn't say is private ownership. Currently, the anything. By far the biggest applause river is protected by state law from came when someone who opposed the Anthony Creek to its confluence with inclusion of the Greenbrier River the New River. under the Wild and Scenic protection This becomes a significant factor suggested that instead of "spending when you consider the federal Wild all this money studying the river, we and Scenic Rivers Act. The Act proought to buy the Corps a hearing aid, hibits the managing agency from conbecause we've been telling them for 40 demning private lands which are be-years that we don't want any dam." ing developed once the government

> tions meant (see box) and how they severely restricting the managing would affect the land use along the

The Forest Service is interested in scenic designation, property owners Hazel said flatly that he has found One reason the Corps wants to build would not be allowed to build within the public meetings — even in adthe dry dam is to enable them to build the 1,000-foot area unless they could be allowed to build the 1,000-foot area unless they could be allowed to build the 1,000-foot area unless they could be allowed to build be allowed to build be allowed to build within the public meetings — even in advance of the preparation of the draft a hydroelectric power plant on the screen the building from view from EIS — helpful. One new idea which Bluestone Reservoir. Their reasoning the river. Under the recreational had not been considered, for instance, is that in order to build the hydro-designation, building alng the river had been the impact that designation electric power plant on the Bluestone, would be permitted. Under either might have on endangered species in they would have to raise the pool of scenic or recreational designation, a the area, particulary the bald eagle, the reservoir. This would result in wide range of agricultural activities the Indiana bat, the peregrine falcon decreased flood protection for the could take place, including timber and the eastern cougar. "If the river cities along the New River which are harvesting, but not clear-cutting.

> versely, about 30 per cent is state or At the Marlinton meeting, there was federal government. If the river were

John Hazel, the U.S. Forest Service owns 50 per cent of the affected land. officer in charge of the current study Thus, if someone advocated protecfor the river's inclusion into the na- ting the river from its headwaters to tional act, explained the preliminary Anthony Creek (assuming that the conclusions of the study. He also ex- rest of the river were already proplained what the different classifica- tected), it would have the impact of

(Please turn to page 6)

Rocks to Fish: Modern-Day Alchemy

Promising new techniques offer the hope of treating lakes and streams being destroyed by acid rainfall and acid mine drainage.

In ancient times, alchemists tried to turn lead into gold.

better.

This summer marked the comple- drum around ten times a minutes with tion of a six-month project in the middle of West Virginia's highlands that salmon fisheries.

For those reasons and others, the work of Peter Zurbuch of Elkins and Dr. Tahson Genscoy of Morgantown is being watched around the world.

Nestled deep in the Alleghenies at engineering, ran the final tests on a prototype machine that automatically feeds limestone rock into Condon Run, a tributary of Otter Creek.

apparently been doing so for eons. Otter Creek's condition was first reported by an expedition from the Genscoy point out, is that it will soon Smithsonian Institution in the late be mechanically - as well as finan-'30's, and by the 1950's - when Zur- cially - feasible to provide acid treatbuch first became involved with the ment for many streams, not only stream - it was still dead.

His project studies began in 1958. A dam on Condon Run and sluiceway even destroyed by acid rainfall or with rotating limestone drums were acid mine drainage. built in 1964, then run for six years, treating the acid in the little river until the project ended. Despite the end proach to the problem. of the project, however, Zurbuch and other employees of the W. Va. Depart-terim solution until the problems of ment of Natural Resources as well as the U.S. Forest Service kept it going and have now amassed mounds of

Their project was four, waterpowered drums filled with limestone which dissolved into the stream as the water washed through. The heavilydozed water neutralized the natural acid in the stream and allowed fish to be stocked and even reproduce.

The problem, however, had been keeping the drums filled. The stream is so acid it can gobble up 100 pounds of limestone an hour, around-theclock, day in, day out - and the drums had to be filled by hand. That pears bleak.

Enter Dr. Genscoy of the W. Va. University's mechanical engineering department. In mid-March of this year, he was hired to devise a way to feed the limestone into the drums automatically - not an easy task, he notes, considering that the whole contraption had to work rain or shine, summer or winter, without jamming or freezing up, unattended for a week with nothing more than water power to keep the whole thing going.

But by late summer, it was operating smoothly, feeding enough limestone into the acid waters of Condon Run to turn the water chalky white — and safe for life.

Still to come is a full-scale working model, one that will include a ten-ton hopper some five feet in diameter by seven feet high. Limestone loaded into the hopper will be fed through a hollow shaft with a screw-like device in a system that automatically adjusts itself for the amount of water flowing through the system.

Clinkety-clinkety-clink-a-clinkety. rumble-a-doo - rumble-a-doo -Nowadays, they're turning rocks in- rumble-a-doo . . . the limestone rocks are dropped, one two or three at a Tomorrow, they hope to do it even time into the rumbling, rotating drum as the power of Condon Run whirls the

about three horsepower.

To be included in Dr. Genscoy's might do everything from treat acid coming year's contract is a re-design mine drainage to save the Atlantic's of the drum itself, a project he views as yet another challenge. Helping him will be 22-year-old Greg Clites, a graduate assistant from Cumberland, Md. who also helped with the design of the prototype, as well as 29-year-old Jim Pappajohn of Morgantown, a Otter Creek, just on the border of one Ph.D. candidate in mechanical of the Mountain State's two engineering. His job will be to design wilderness areas, Zurbuch and a more efficient drum. Dr. Genscoy Genscoy, modern-day alchemists in hopes to boost its energy from three to the fields of biology and mechanical six horsepower. That, according to Zurbuch, will enable the entire treatment station to be moved farther and farther into the headwaters so more of the stream can be treated and a The tributary is so acid that it kills smaller impoundment will be re-fish for ten miles downstream and had quired to provide the power to turn the limestone-filled drums.

What it all means, Zurubuch and those that are naturally acid but those that are being severely damaged or

Zurbuch sees the new process as far more than merely a "band-aid" ap-

acid rain can be addressed," he says, but in addition, the system can be a management tool, one which can increase the productivity of streams.

Already, looking beyond Otter Creek, Zurbuch has proposed a million-dollar installation on the Cranberry River, one of the state's major fisheries which is being destroyed by acid rainfall. While the proposal was rejected for funding by the W. Va. legislature last year, Zurbuch has submitted the idea to the U. S. Environmental Protection Agency. "They've not said 'no,' "he notes, but adds that the outlook for funding ap-

Elsewhere, however, Zurbuch and Genscoy's work is being eyeballed closely. In Pennsylvania, where similar acid stream treatment is already underway, interest in the Otter Creek project is high because it costs only one-seventh as much as the techniques that are now being used

Farther north, in New England and Canada, Zurbuch believes the technique might be useful in saving thousands of lakes which are dying from acid precipitation wafted up from the lower United States. There, the problems have become so acute that helicopters are being used to sprinkle lakes with hydrated lime an extremely expensive proposition.

Near the Atlantic coast, the Otter Creek techniques could be used to raise the water quality of fresh-water streams and rivers used by Atlantic salmon to spawn their young. Without such treatment - and with the everincreasing tide of acid rainfall - Zur-

(Please turn to page 6)



Considering the operation of a new device that could save thousands of miles of streams and millions of acres of lakes from extinction is Greg Clites, a 22-year-old graduate student at W. Va. Unviersity who, as an assistant to Dr. Tahson Genscoy (second from left), helped design the prototype device. He will also be involved in its improvement during the coming year.

Standing on the grate is Peter Zurbuch of the Department of Natural Resources' operations center at Elkins, a man who has spent a quarter century working on Otter Creek and developing a promising new acid water treatment system.

The prototype limestone feeder will now be upgraded into a full-scale working model which may make treatment of major rivers and streams feasible — both practically and financially.

CANAAN VALLEY

Reagan v. Canaan

A media pitch is planned during the Democrats' 'Tidewater Conference' at Canaan Valley State Park

regional representative of the National Audubon Society will conduct a president," according to Cutler and press conference — as well as a minibus tour — during the nation's tion's aversion to federal land active national wildlife refuges that supDemocrat Senators' retreat in Caquisiton and the direct role that Inport many species of birds and other naan Valley set for Friday, Saturday and Sunday, Oct. 2 through 4.

Appearing on behalf of the Society will be Dr. M. Rupert Cutler, a senior vice president of the NAS, as well as the Society's regional representative, Linda Elkinton. Mrs. Elkinton is a fourth-generation resident of Canaan, while Dr. Cutler is a former assistant secretary of agriculture for environment and natural resources.

The press conference, set for 10 a.m. Saturday, Oct. 3, will be held at Canaan Valley State Park's Lodge near Davis in Tucker County.

The Audubon pair is expected to discuss the problems of and solutions to "the threats posed by the Reagan administration to the Canaan Valley and other significant natural areas vital to the protection fo the nation's wildlife and scenic resources.

"Much of this 35,000 acre ecosystem — at 3,500 feet the highest valley of its size east of the Mississippi — was to

A senior vice president and a have become a national wildlife Valley, the future of this unique

terior Secretary James Watt animals, may be lost forever to inpreviously played in the licensing of a compatible development due to shorthuge, 1,000-megawatt pumped- sighted, false economizing by the storage pwoer plant in the Canaan Reagan Administration."

MORGANTOWN

Snobberies of Energy

A university study pinpoints who is likely to favor and oppose energy-related developments.

A study conducted by three W. Va. Unviersity professors has concluded that people with blue-collar and service industry jobs, as well as those who are proud of the area in which they live, are more likely to perceive energy-related developments - a new coal mine, a synfuels plant, etc. - as

The study was conducted by Nancy Stout-Wiegand and Dennis K. Smith of the University's division of resource management, and Robert G. Trent of the University's department of sociology.

'As part of a long-term study of the impacts of energy-related

(Please turn to page 6)