

Upward Bound— Students offered chance to develop skills

The American Indian Education Opportunity Program at the University of Colorado/Boulder has received an award to sponsor an Upward Bound National Demonstration Project for American Indian and other educationally disadvantaged students. The emphasis of this 36-month project will be to provide eligible students with developmental instruction in pre-collegiate science and mathematics.

This is an opportunity for you, the student, to begin to develop the skills necessary to serve your people and yourselves in the ongoing struggle for sovereignty and self-determination. For this reason, the Project has been named "Science and Self-Determination."

All instructions and services offered by the Project are extended at no charge to participating students. To the contrary, the Project pays stipends to each student selected for participating, on a virtually a year-round basis.

Student Selection

The Project will select 75 students per year as participants. Selection shall be based upon a combination of overall student GPA, types of science and math courses already taken, student motivation as assessed through letters of recommendation and a short essay written by each applicant, financial guidelines and other Upward Bound requirements.

Summer program

Each summer, the selected students will participate in a 6-week summer institute which offers intensive individualized instruction as well as academic and career counseling. Core instructional units will include mathematics (college-oriented). An assortment of field trips to various sites where advanced scientific endeavors are currently underway is included in the instructional package.

These include: Martin-Marietta's space program, the Solar Energy Research Institute, the National Center for Atmospheric Administration, U.S. Geological Survey and the National Bureau of Standards.

Academic year component

During the academic year following the summer institute, each participating student will receive intensive follow-up instruction in his/her home school. Instruction will be provided by the home-school coordinator on an individual or small group basis, as appropriate.

Curriculum offered in this context is designed to extend the summer institute experience to a year-round basis. Each participating student will receive a \$20 month stipend during the academic year.

How to apply

Students interested in participating in the Science and

Self-Determination Upward Bound National Demonstration Project should see their high school principal immediately. Ask him/her who your school coordinator is. Your school coordinator will have applications, will assist you in filling it out properly and will submit it to the University of Colorado office. This applies only to students in participating target schools. **Students in the Warm Springs area are encouraged to contact Ron Pinkham, school counselor, Madras High School, Madras, Oregon 97741. Phone 475-7265. For additional information contact (write or call):**

**Richard B. Williams, Director
Upward Bound National
Demonstration Project
American Indian-EOP
Campus Box 146
University of Colorado/Boulder
Boulder, Colorado 80309
(303) 492-6134 or 492-8241**

PARTICIPATING SCHOOLS

- | | |
|---|--|
| Dulce High School
Dulce, New Mexico | Ramah/Pine Hill Indian School
Pine Hill, New Mexico |
| Ignacio High School
Ignacio, Colorado | Rock Point Community School
Chinle, Arizona |
| Labre Indian School
Ashland, Montana | Rocky Boy Tribal High School
Box Elder, Montana |
| Lakeland Union High School
Minocqua, Wisconsin | Santa Fe Indian School
Santa Fe, New Mexico |
| Little Wound High School
Kyle, South Dakota | Tohatchi High School
Tohatchi, New Mexico |
| Montezuma-Cortez High School
Cortez, Colorado | Wyoming Indian School
Ethete, Wyoming |
| Oneida Tribal Schools
Oneida, Wisconsin | Yakima Tribal High School
Toppenish, Washington |

Weather

Oct.		
1	71	33
2	62	44
3	61	40
4	60	40
5	66	33
6	63	36
7	57	34

Oregon Indians organize

Oregon Indians from Grand Ronde, Portland, Salem, Siletz, and Warm Springs met last week to organize Oregon Indians for Atiyeh—a statewide steering committee to support the Governor's reelection among Indian voters.

The meeting was called by Warren "Rudy" Clements of Warm Springs and was held at the Governor's Portland Headquarters on Saturday, September 18.

While recognizing that Indian voters historically have not been active in state political races, the members of the steering committee agreed that Governor Atiyeh's re-election should be a high priority for Oregon Indians.

According to Clements, "Governor Atiyeh has earned our support by his actions on behalf of Oregon Indians during the past decade. We cannot afford to lose his leadership and responsiveness to issued affecting our tribes and communities. We truly have an Oregon Governor

whose record we can be proud of."

The steering committee will promote the Governor's candidacy through a speaker's bureau, local community events, and a voter registration and "get out the vote" drive. According to Clements, "We want to get the word out in Indian country that Governor Atiyeh has been good for Oregon and for Oregon Indians."

In addition to Clements, other members of the steering committee include Arthur Bensell, Siletz; William Brainard, Coos Bay; Mike Farrow, Pendleton; Merle Holmes, Salem; Faith Mayhew, Portland; Bill Plummer, Klamath Falls; Lynn Schonchin, Chiloquin; and Twila Souers, Eugene.

Additional information about the steering committee's efforts on behalf of Governor Atiyeh can be obtained from Rudy Clements at 553-1161, ext. 299 in Warm Springs or from any of the other members of the steering committee.

Human liver chemical treatment plant

Nobody knows how it works

The combined results of drugs, environmental pollutants, alcohol and disease have seemed to center on one hardworking but beleaguered organ—the liver.

And since death from liver disease is often preceded by prolonged illness requiring hospitalization, it is a serious problem for society, says Dr. Burton Combes, of the University of Texas Health Science Center, Dallas.

The liver acts as a major metabolizer, or chemical changer, in the body. Almost everything eaten, after it has been absorbed by the intestinal tract, goes first into the liver through the blood stream. The liver has functions absolutely vital to the maintenance office said Combes. Yet it remains somewhat mysterious—all its processes are chemical and extremely difficult to observe.

Normally the liver purifies and detoxifies the blood before it goes to the heart and other organs. It is the main neutralizing center for certain dangerous chemicals, and the only neutralizer for alcohol—making alcohol even more dangerous because it speeds up the liver's metabolism.

Most substances in the blood not prepared for excretion are rendered safe and/or useful by this organ; but even when the organ is working normally, some of these substances may

be converted into toxic or carcinogenic substances.

Also, the liver manufactures bile acids, which aid digestion and regulate the production of cholesterol. In addition, the liver stores certain foodstuffs and releases needed elements to the body in times of fasting. It produces necessary proteins, manufactures most of the blood-clotting factors, stores vitamins and iron, and maintains fluids balance.

"No one knows why," says Dr. Combes, "but the liver is also responsible for the integrity of muscle tissue, as well as the 'aliveness' of the brain."

"If you took our your liver, in a number of hours your blood sugar would go so low you would become comatose and die, even if blood sugar were maintained by travenous infusion."

Why are liver diseases on the upswing in modern industrialized countries? In less than ten years, it is predicted, liver diseases in the United States will rise from fifth to third place as a cause of death.

"No one knows for sure," says Combes, "but we can infer that the increasing amount of industrial pollution, chemical hazards in an expanding industries economy, and the development of new drugs have been heavy contributors."

In addition, the levels of affluence attained in our

societies have led to increased abuse of numerous drugs, both prescription and street drugs, as well as alcohol.

Much more must be discovered about metabolism in the liver and how it is changed by what we breathe, eat and drink. Some environmentalist pollutants may directly cause malignancy, while others accelerate or enhance the effects of the natural causes. No one has begun to look at the implications of the 20,000 tons of vinyl chloride escaping into the atmosphere each year. Many chemicals, harmless in themselves, but which stimulate metabolism in the liver, are being added to our foods—in the field, during processing, or at the packaging stage. In the case of any disease, prevention and proper therapy require basic knowledge of how it is caused, how it spreads, and what persons are likely to be susceptible. These important elements are lacking in the case of liver disease. The inadequacy of present medical knowledge is reflected in the unavailability of specific therapies for most of these conditions. More research is needed.

Dr. Combes and other liver specialists have now organized the American Liver Foundation to back research



Student of the Month

Nominated by student and chosen by a faculty committee Tony Stacona, 8th grade and Sue McCool, 8th grade were honored with becoming this year's first students of the month at Madras Junior High for the month of October.

Spilyay Tymoo photo by Shewczyk