Gettysburg FFA Will Use Grant To Build Environmental Center



Part of the proposed sight for Gettysburg Area School's environmental/earth center, these grounds include wetlands, wooded area, and potential turfgrass areas for use in environmental education.

JAYNE SEBRIGHT Lancaster Farming Staff

op an environmental center ever have a bird watching station.' since he started teaching 26 years ago.

have that opportunity.

one of four youth programs to re- greens." ceive the highest dollar value of matching grants — about \$10,000 Gettysburg Area School District dollars program. 31 youth organizations received a total of \$100,000 in matching and direct grants as part of this year's grant program, location to give students hands-on which was administered by the Pennsylvania Department of Agriculture.

Gettysburg Area High School has more than 300 students enrolled in agriculture classes, while 40 students are members of the er. Gettysburg Battlefield FFA. But Sollenberger hopes that the enviwill benefit many more students than just those involved in agriculture.

"My intentions are to develop an environmental center that will include as many different programs in the school as possible," said Sollenberger. "The center will be oriented primarily to high school and elementary students."

A move to a new high school located on a 125-acre property opens up the opportunity to build the environmental center.

acres with three buildings located on it," said Sollenberger. "This one is 125 acres with one building."

school's environmental center," GETTYSBURG (Adams Co.) said Sollenberger. "I already know Ron Sollenberger, Gettysburg that two of the elementary teach-Battlefield FFA Adviser and ers are avid bird watchers and inteacher at the Gettysburg Area tegrate that interest into their cur- ronmental center to be an ongoing High School, has wanted to devel- riculums. Perhaps the center will

be designed to work with both to ever really complete the project Now, thanks to Pennsylvania's classroom and extracurricular ac-Agricultural and Rural Youth tivities. "We plan to develop trails and adding new things is the way Grant Program, Sollenberger will for the cross country runners, and we can teach students about the we hope to establish turfgrass environment." Gettysburg Battlefield FFA was plots that can be used as golfing

According to Sollenberger, the - approved by the grant has been integrating environmental education into its curriculum for the past ten years, but teachers never had a convenient experience.

'Lots of schools have environmental centers, but the teachers often don't know about them because they're not integrated into the curriculum," said Sollenberg-"We want to develop as many different ways for teachers and students to use the center as possironmental center developed with ble. Basically, it will include anythe help of the matching grant thing that has to do with the environment."

> Sollenberger and his students will be working with area organizations to develop the center.

"We've already talked with the soil conservation district, and we're talking to a local forester on Friday," said Sollenberger. "We're doing some soil profiles, and we plan to involve the game commission and the state land management person in the project."

"Our old location was only 52 tions are eager to help. "The game undertaken in his years of teachcommission was appalled at the ing. amount of grass we are mowing habitats in that grass." ty's new Ag Resource Center has we can incorporate. If one thing Lal said. been designated for use by county won't work, we can come up with school agriculture programs.

would want to include in the plots," said Sollenberger. "I'm ly in relation to soil carbon. hoping to have our turfgrass plots there because the school may not let us plow up any ground."

Sollenberger expects the enviproject. "The matching grant will be used to get the ball rolling," The environmental center will said Sollenberger. "I don't expect because working with the center

> For Sollenberger, writing the grant was an extensive project. "I spent quite a bit of time on it," he said. "The hardest thing was digging up the itemized cost figures and being able to justify them."

> Once he completed the proposal, Sollenberger showed it to both the students and school board for their approval and sent it to Penn-December.

> Representatives from the Pennsylvania Departments of Agriculture and Education, the state 4-H and FFA associations, the Pennsylvania Vocational Agriculture Teachers Association, the Penn State Cooperative Extension, the Pennsylvania State Grange, the Pennsylvania Council of Cooperatives, and the Pennsylvania General Assembly judged the applications.

"I was really surprised when I was notified in February that our proposal was approved," said Sollenberger. "It is one of those things where you are either approved or not. They won't give you half of the money you asked 100 billion metric tons of carbon. for - it's all or nothing.

The center will be the largest With 125 acres, the organiza- project that Sollenberger has ever

have a lot of dreams about

Don't Disrespect The Soil That Feeds You

quantity and quality of the water, decreasing downstream world's soil will not meet future flooding and lowering the release food demands if the population of particulate matter into the atcontinues to grow at its current mosphere - thus, decreasing the rate and efforts are not taken to risks of global warming. improve soil conditions, said an Ohio State University soil scien- Lal said. tist.

we trust," said Rattan Lal, a pro- is not a permanent solution to the fessor of soil science in Ohio State problem. Soil can only hold so University's School of Natural much carbon, and with appropri-Resources. "It's time that we as a ate agricultural practices it will be community give proper respect to filled within 25 to 50 years, Lal what we call dirt."

and carbon sequestration (keeping One mistake, such as plowing carbon in place in the soil), Lal ar- once after years of no-till can degues that two key 21st century stroy 20 years of work. concerns --- global food security caused by a rapid increase in ing alternatives to fossil fuel world population and increases in usage," he said. "What it does is atmospheric greenhouse gases - provide us an opportunity to seare linked to soil quality, especial-

carbon dioxide is occurring at the to fossil fuels. This is not 'the' anrate of 3.3 billion metric tons per swer, but it is an important temvear. In addition to fossil fuel combustion, the increase is caused by soil cultivation, biomass burning and deforestation. Even more emphasized that world hunger methane and nitrous oxide - are caused by further declines in soil quality from erosion and nutrient imbalance, Lal said.

Before the 1970s, more carbon was emitted into the atmosphere from soil and agricultural activity than from fossil fuel combustion. Now, agricultural activities are responsible for about 25 percent of global emissions.

Lal has worked with colleagues sylvania Department of Ag last around the world to assess the potential for agricultural practices the air.

> He recommends a variety of agreducing the release of carbon zinc, copper and iron. into the air. He estimates judi-

In the United States alone, carbon sequestration could affect 212 impact on soil quality and the use million metric tons of carbon per of cropland to reduce the threat of year, or about 12 percent of the global warming, interested people total carbon emissions. Through a should call Lal at (614) 292-9096, here," said Sollenberger. "They how this center will be," he said. global program of soil manage- e-mail him (Lal.1@osu.edu), or see a lot of potential for wildlife "We might not get permission to ment, "the potential of soil resto- check their local libraries for a do everything I want to do. But ration is enough to nullify the an- book Lal and several other au-In addition to the school prop- there are so many different as- nual increase in atmospheric thors have written on the subject erty, a four-acre plot at the coun- pects of environmental education concentration of carbon dioxide," titled, "The Potential of U.S. Cropland to Sequester Carbon and Increasing soil carbon also has Mitigate the Greenhouse Effect." other societal benefits: resisting The U.S. Department of Agricul-

COLUMBUS, Ohio - The pollution-laden sediment into

"It's truly a win-win strategy,"

However, the use of cropland to "I tell my students that 'In soil, reduce atmospheric carbon levels said. Soil carbon also can be easily A specialist in soil degradation lost back into the atmosphere.

"This isn't a substitute to findquester carbon in agricultural soils for the next 25 to 50 years The increase of atmospheric while we find viable alternatives porary solution."

Though the water and air quality concerns are high priorities, Lal gaseous emissions — including already a problem for 790 million people globally — will intensify if agricultural productivity is not improved.

> "There are not many troubles in the world more alarming than those caused by an empty stomach," Lal said.

The combination of the best soils with the best management practices will produce optimum yields and spare marginal land for nature conservancy, he said.

Concerns about food availabilithat would improve soil quality ty are particularly high in develand, at the same time, reduce oping countries, where almost emissions of carbon dioxide into 97.5 percent of the estimated annual population increase of 73 million people is expected to ricultural practices, including occur, Lal said. Malnourishment conservation tillage, precision in these areas is intensified in farming and growing cover crops, cases where crops and animals are to keep carbon in the soil, thus raised on degraded soils missing improving soil productivity and many nutrients - among them,

Lal's collaboration with other cious land use and soil manage- scientists in a national, multi-inment techniques could resequester stitutional research effort to quan-60 percent to 70 percent of the tify the potential of soil carbon sehistoric carbon loss of 80 billion to questration has led to the publication of 12 books.

To learn more about carbon's

The property includes a wooded lot, wetland area, a stream, and plenty of grass. Sollenberger plans to develop turf grass plots, plant ID plots, water quality testing stations, streambase management stations, wildlife habitat areas, and forestry management stations.

"The matching grant will be used primarily to purchase the equipment needed for the environmental center," said Sollenberger. "Students will be building the center during classes, after school, and as FFA projects.'

is to send out a wish list to ele- and Research Board. mentary and high school teachers. "I am asking them what they

something else to replace it. It is "Since we're the closest school going to be as extensive of an envito the center, we'll probably have ronmental center as any school erosion, reducing the transport of ture commissioned the study. the most opportunities to use the has."

Glickman Fills Vacancy On National Dairy Board

WASHINGTON, D.C. - Agri- Kansas, New Mexico, Oklahoma, of 36 dairy farmers representing sign programs to strengthen the culture Secretary Dan Glickman and Texas. Hoff will serve the re- 13 regions of the contiguous U.S. dairy industry's position in dorecently announced the appoint- mainder of a 3-year term ending and administers a coordinated mestic and foreign markets. The The first thing Sollenberger ment of Neil Hoff of Windhorst, Oct. 31, 2002. The vacancy was program of promotion, research, national program is financed by a plans to do once he has the check Texas, to fill a vacancy in region 4 created by the resignation of John and nutrition education. from the matching grant program on the National Dairy Promotion B. Stacks of Damascus, Ark.

The National Dairy Promotion the Dairy Production Stabilization and is marketed commercially by Region 4 includes Arkansas, and Research Board is composed Act of 1983. It is authorized to de- dairy farmers.

mandatory 15-cent per hundredweight assessment on milk pro-The board was established by duced in the contiguous 48 states