Japanese with Dreams

Mountaineering Conservationis **Brings Electricity to Himalayas**

generation device unaided, and succeeded in producing electric light in a and, increasingly, mountaineers use this vegetation for fuel. Troubled by small village in the Annapurna region, which was the first such light in the this situation, a Japanese alpinist made a tiny hand-made water-power Many alpine plants and much forest have been destroyed as local people that Nepal's vegetation has been reduced by half in the past thirty years. history of the village. Destruction of natural resources is a serious problem in Nepal. It is said

spired him to wish he could live in such a money. Had Hayashi not encountered in where he could spend his winters, remajestic place for the rest of his life. In by the breathtaking beauty of the Himamediately after he graduated school fact, he built a small temporary hut tuary of Annapurna, in particular, inbefore him. The sight of the Inner Sanc-When he had a chance to go to Nepa mountains since his childhood, he defecture of Nagano. Because he has loved laya mountains, as has been each alpinist four years ago, Hayashi was fascinated (36), who lives in the mountainous pre-This alpinist is Katsuyuki Hayashi work in the mountains im-

he might have remained a mere nature Nepal a situation problematic to both

Himalayan alpinists and Nepal residents,

oil-producing and not completely indus order to survive, because Nepal is a non

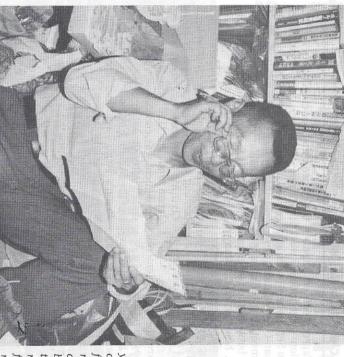
vites

wisdoms

this end, he in-

nor electrician, he worked by repeated trial and error. Finally, however, he succeeded in generating electricity with was neither a professional civil engineer the fifth device.

stood that the Nepalese people can't af visit to Nepal. Hayashi added, "I under viously enjoyed viewing had disapsickness to the generation of electric concern from the treatment of mountain They have to depend upon firewood ir peared by the time he made his third that some forests which he had premuch surprised and discouraged to find ford to buy oil for household energy light in a village. He said he was very Himalayan forest, however, changed his Witnessing the destruction of the



couraging letter to organize a "We books, mouncrowded yashi reads an enlayas" group; to Love the Himaments. He intends ment, and tools taineering equiproom, which is from abroad in his for his Katsuyuki Haexperiwith

electrolysis, and then electricity can be oxygen can be produced from water by saw the amount of snow in the Himalaya tain sickness during my travel. When I saw a Japanese alpinist die from mounaround the Everest mountains, I myself equipment for the purpose of treating make a hydro-electric power device was generated by hydro-power." Since he mountains, the idea came to mind that to build a cottage with oxygen supply not originally that of producing electric had a headache for about a week. I once mountain sickness. When I first traveled light in a village. He said, "I was going Hayashi's motive for attempting to

pensive imported oil. Of course, part of the fault lies with many foreign alpinists, including myself, who use firewood as their sole source of energy." Though the Nepalese government has begun to prohibit the use of raw wood as firewood, Hayashi said, the measure has in fact contributed to heightening the value of wood. He believes that in order to guarantee a continuing energy supply to the residents, a cheap alternative energy must be provided to them.

Hayashi stayed at Chhomorung during last winter, dedicating himself to electric generation in the village. Chhomorung is a small village with a population of only 500; it is located about 40km north of Pokhara, which is famous for its excellent observation platform of the Himalayas. Hayashi lacks the millions of dollars necessary to donate large, systematic water-generation

Americansection

Hayashi's first wind wheel device for generating electricity

equipment or hire skilled Japanese engineers. However, he studied the system behind electric generation and made, unaided, a water wheel for this purpose. Timber, used cans, used batteries, and similar items were used in the creation. All the materials and tools were either hand-made or cheaply procured.

applied to the Japanese government for pressing need, they had to rely upon the cause their application was not made on their petition was politely refused beprovement program in a specific village so it cannot cooperate with a major imgovernment tries to avoid partiality or from the Nepalese government. The cannot be achieved simply through help volunteer efforts of an individual the introduction of hydro-electricity. Yet In fact, the villagers in Chhomorung had favoritism among the various villages, the village. This sort of cooperation cause he has a Nepalese friend living in Hayashi chose Chhomorung simply be-Nepal where no electricity is provided, Though there are many villages in governmental basis. Despite their

Hayashi, in order to have that need met.

Ultimately, in March of this year,
Hayashi succeeded in generating 1kw of
electricity, taking advantage of the
melting glaciers. This was enough
energy to illuminate a light bulb at a
brightness slightly greater than that of
candle light. About twenty of the villagers who witnessed Hayashi's experiment raised a shout of joy at the result.
He would have liked to remain in Chhomorung until he could generate electricity of stronger kilowattage, but had
to return to Japan to earn money for the
production of a bigger-scale device.
Hayashi's memory of the villagers'

joyous faces at the sight of his electric light has motivated him to save since this April towards the travel and material expenses of his next trip to Chhomorung. He reaffirms his determination to generate at least 10 kw of electricity, and perhaps eventually enough to light up all the houses in Chhomorung during this coming winter.

from all over the

and the greater good of the Nepalese the magnificient Himalayan mountains ly contribute to both the conservation of in Nepal, his use of science will positivenot expect personal profit from his work Nepalese people, and as long as he does remains the benefit of nature and the does think that as long as his top priority and its favors," his implementation of sometimes worries whether or not his people. to the Himalaya's basic nature. Hayashi science seems somehow in contradiction the maxim, "Love nature, follow nature Hayashi, the type of man who lives by progress for this small village. the negative ramifications of scientific people. In other words, he is afraid of innovations will benefit the Nepalese Hayashi. He confesses, however, that he brought into Chhomorung by the hand of A new wave of science will thus be

He is modest enough to regard himself as a mere sower of seed in the process of bringing electricity to Nepal. In this sense, he hopes more people worldwide will sympathize with his work. Anyone in any field, he feels, could benefit the cause through cooperative effort. Hayashi will go back to Nepal this October, hoping his work will preserve the beauty of the Himalaya mountains, which he thinks of as an international park.