Features

Save our selves

Guelph professor proposes a do-it-yourself approach to hunger issues

In 1984, a boy just graduating high school watched a CBC news piece on the famine in Ethiopia. Peter Mansbridge, with a head full of hair, introduced Brian Stewart who was on location covering the famine. Attributed to "the worst drought in memory," the nation was suffering unprecedented food shortages. Reporting 100 deaths daily due to starvation, the piece displayed a grim image of a man forcefully straightening and binding a body set with rigor mortis in preparation for burial.

For this boy, now University of Guelph plant agriculture professor, Manish Raizada, this was a key moment of horrifying in-

a-half technologies that could change the world'.

Raizada has been looking at many of his solutions can help farmers here in North America, pre-agriculture diet. these technologies are aimed at ing nations like those in Ethiopia.

"In developing countries it becomes a life and death issue," Raizada said, underlining the technologies to be distributed to people in need.

Raizada puts his plan into perspective by first identifying a problem, asking us to "imagine if all the car makers in the world made the same three cars." Raizada said this would push the price down the world over, as all cent of the harvest. Another SAK manufacturers would be competnearly an actuality for global agriculture.

"50 per cent of all food calories the world over are supplied by corn, rice and wheat. And 80 per cent of all our calories come from 20 crops in total," Raizada tones with a sense of disappoint-

In this market, it is cheaper for someone in Africa to buy a subsidized American farmer's corn after shipping costs than it would cost that person to buy unsubsidized local corn, Raizada

How do you reach two billion people?

professor Manish Raizada

said. Comparatively, there are before it becomes waste. an estimated 20 thousand edible Currently, Raizada's crops to potentially be used.

"I'm shocked at the level of what has not been done," he add-

Cheap compared to governmental agriculture subsidies, Raizada expects that a program to invest \$1 million in a thousand new crops might open up new so-Raizada has turned his focus or millennia old problems in agto combating famine and his riculture. Citing work by writers work was recently featured on such as Jared Diamond, author the CBC Radio show, Ouirks and of Guns, Germs, and Steel, Raiza-Quarks, as one of the 'Nine-and- da said that though we generally understand that we are larger in stature than our ancestors due to improved nutrition, evidence methods of making agriculture suggests that we're just realizing sustainable and affordable for the physical proportions that our farmers the world over. Though ancestors achieved 20 thousand years ago due to a well-balanced,

A direct and practical solution helping poor farmers in develop- for the short-term that Raizada is working on are Sustainable Agriculture Kits (SAKs) that will utilize simple and affordable product called a GrainPro bag; what looks like a clear garbage bag is an 80 cent oxygen expelling storage container for seeds, filling in the role of a grain silo for those who could never afford such a thing, saving up to 80 per product is a green-bag, which

Currently, Raizada's lab is working on developing a cheap, on-site test for soil fertility. His team has managed to cut down costs to a dollar per soil fertility site test (about 500 tests per field) but still require a lab to do so. This is a huge step from the previous \$10 per site test that could never be within the finanlutions to decades, if not centuries cial reach of developing world farmers who make between \$1 and \$2 a day. They hope to one day have a portable, easy-to-use version of this test and it seems within reach.

With operations beginning in Haiti, Liberia and Afghanistan, Raizada hopes to branch out in the near future to the 30 poorest nations as ranked on the United Nations Human Development Index (HDI). But Raizada recognizes SAK's biggest challenge: distribution

"How do you reach two billion people?" he said.

Raizada is adamant that the SAK project is not to run on subsidies or to be intended as a hand value of these technologies to farmers. Presently, Raizada has a out. The SAK will be run locally ing that we'd never hire a PhD Raizada. "We're just putin each nation and operate by be-

"It's a bottom up approach," said Raizada, "If it's not meeting people's needs they aren't going

and affordable, the SAK will essentially pay for and distribute ing with one another, though this can the ripening process in fruits itself while providing food sta-

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Professor Manish Raizada displays the Grain Pro bag. For less than a dollar this bag will preserve crops and function as a silo for farmers in developing countries

climates and ecologies.

"I hate the image of the white man coming in to solve problems, it's arrogant," he said, add-

itself as a business and focus on come to Guelph to solve our emaddressing local needs by adjust- ployment solutions, so how can ing the SAK for their respective we expect to step in to problems we aren't fully familiar with and

"The SAK is not me, the SAK is the local people," said from Ghana, for example, to ting the resources together.

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