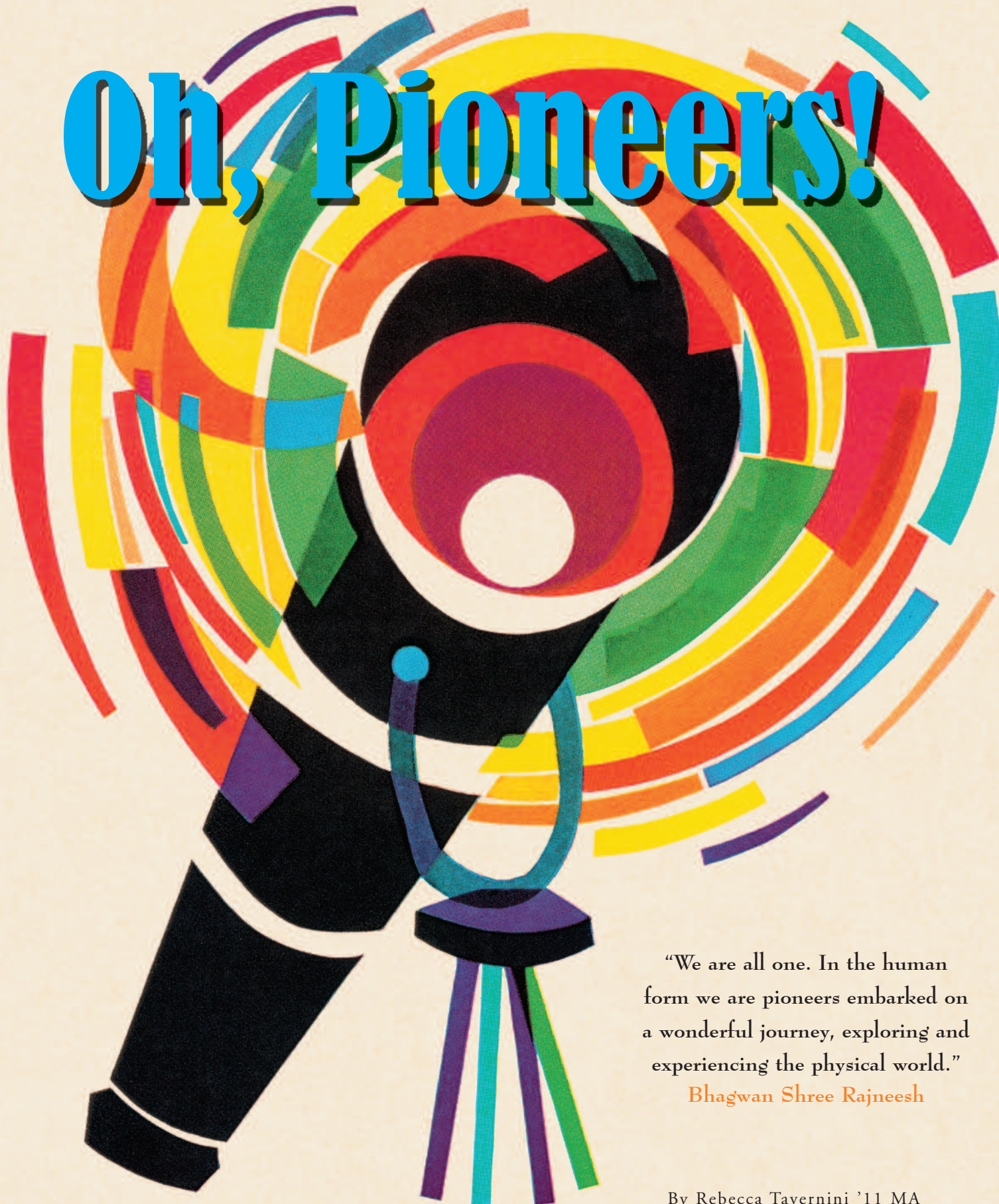


Oh, Pioneers!



“We are all one. In the human form we are pioneers embarked on a wonderful journey, exploring and experiencing the physical world.”

Bhagwan Shree Rajneesh

By Rebecca Tavernini '11 MA

Remarkable advances in technology, health and social issues in the last few decades have brought us not only closer to the imagined future of the mid-20th century, but in many ways beyond what anyone could have envisioned.

Yet, 95 percent of the ocean remains unexplored, 96 percent of matter in the universe is unknown, 1.3 million people die each year of preventable and treatable tuberculosis and 1.2 million from traffic accidents. Not to mention that if you need a cab when it's raining, you're going to get wet.

Enter NMU alumni, those fearless explorers, visionaries, inventors, movers and shakers.

In this issue, meet **Lisa (Trotter) Kelley**, who dives beneath Antarctic ice to glide through a world surprisingly rich with life and bursting with color and magnificent creatures—some that may turn out to be newly discovered species.

Ben Scheelk is a fellow aquaphile, whose work with Blue Legacy seeks to protect, preserve and improve the world's essential water resources, by using new ways to educate and collaborate.

Celestially, student **Matt Menze** worked at NASA to help develop tools to simulate a possibly revolutionary type of robotic anatomy that may also have terrestrial uses.

In an unbelievably short period of time, **Kyle Ortiz** moved heaven and earth to save hundreds of lives by setting up community tuberculosis treatment centers in the capital of Cambodia, demonstrating a growing model of affecting large-scale change with a small-scale staff and budget.

Speaking of large-scale, **John Fleming** and partners are thinking big when it comes to U.S. transportation, garnering support for an elevated transportation system that allows cars and freight to travel on both roads and automated high-speed rail, easing congestion, pollution and accidents.

At Northern we are working to expand the borders of our classrooms, by partnering with other universities, such as Macomb Community College and Lake Superior State University to offer courses they don't, in-person, online or via interactive TV. In addition, by working with game theory expert **Ron St. Martin** we are charting our best-best countries and strategies for bringing significantly more international students to our Marquette campus.

And as for advances in hailing a cab, thanks to **Martin Heikel**, there's an app for that.

Enjoy the ride to these new frontiers...

The McGoff Distinguished
Lecture Series Presents



The Director and Chairman of the Hudson Institute and the world's best known futurist, Herman Kahn is a specialist in the research of what to expect in socio/economic, political, and technological trends for the United States and other countries throughout the world. His insights, gathered from a team of researchers around the globe, may astound you. Many of the world's largest corporations and governmental agencies use the services of Herman Kahn and the Hudson Institute. Don't miss this "exciting view of the future." There is no charge for this lecture.

Herman Kahn

A look into mankind's future with

"Perspectives on the Future"

8:00 p.m.

Thursday, November 20, 1980

Forest Roberts Theatre
Northern Michigan University

When futurist Herman Kahn came to Marquette in 1980, he had a luncheon with faculty and staff, talked with a social science class, went on a tour at Cleveland Cliffs Mining Company, met with local high schoolers and held a public presentation at Forest Roberts Theatre.

Here's what Kahn prognosticated in his speech:

- "Very square, right wing fundamental groups will restore the 'can do' attitude to America and eliminate excessive government regulations."
- In 2030 (50 years from his speech) the population will stabilize at 10 billion people and per-capita world income will be \$25,000.
- The world is in a period of "great transition where the rich will get richer and the poor will get richer."
- The best job prospects will be in computer science and service industries.
- The U.S. and U.S.S.R. will decline in power and Japan, China, West Germany and France will grow.
- "The most likely scenario for WWII would be a revolt in East Germany and Poland against Soviet domination."
- "Two hundred years ago mankind almost everywhere was scarce, poor and at the mercy of the forces of nature. Two hundred years from now, barring bad luck or bad management, mankind should be almost everywhere numerous, rich and in control of the forces of nature."