

CONVERSATIONS UNLIMITED - Tuesday, Dec. 23, 1986

INTRO UP AND UNDER

Hi, everybody. This is the time of year when our thoughts may turn to the North Pole and the jolly elves who reportedly work there year-round. But today, we're going to take you, by way of radio, in the opposite direction. We're going to visit the continent of Antarctica, the area around the South Pole. I'll be talking with two scientists who recently returned from spending several months in that land of snow and ice in order to study the atmosphere.

Dr. Robert deZafra is a physicist and Dr. Philip Solomon an astronomer on the faculty at the State University of New York at Stony Brook. A team of five from Stony Brook was in Antarctica this fall as part of a national group studying the ozone over the south polar region. Their concern centered on what has been described as a hole in the ozone layer. Dr. Solomon, I suppose a question often asked of you is, "Have you learned why the ozone has developed a hole?"

INTERVIEW DR. DE ZAFRA, DR. SOLOMON:

- Outline nature of the problem
- Review history of research
- How humans are changing nature
- Detail the 1986 mission's mandate
- Review information gathered
- What conclusions appear possible?
- "Urbanization" theory of Whitten-Gery re smog, acid rain
- Should public be worried

14:00

We'll take a short break now. When we return, we'll be talking with Bob deZafra and Phil Solomon about what it's like to live near the South Pole. Stay with us, please.

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BRIDGE MUSIC UP AND UNDER

Hi, everybody. I'm Al Oickle. I'm talking with two scientists who recently returned from living down under Down Under. They are Dr. Robert de Zafra, a physicist, and Dr. Philip Solomon, an astronomer, at the State University of New York at Stony Brook. They have been in Antarctica working with a Stony Brook team and others on the mystery of a hole in the ozone layer over the south polar region. I've heard it said, Dr. Solomon, that the living conditions inside the Antarctica camp are as pleasant as those in Hawaii. Is that an exaggeration?

INTERVIEW DE ZAFRA

- The weather there - annual snowfall, temps etc.
- A typical day for him and Stony Brook team
- How SUSB's equipment was used
- Work being carried out now at Stony Brook
- How soon conclusions?
- Describe coordinating efforts among researchers
- What's next for Stony Brook team?

29:00

OUTRO

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PROMO - For use no later than 5:55 p.m. Dec. 23, 1986

Hi, everybody. This is Al Oickle. I'm on Conversations Unlimited every Tuesday at 6 p.m. here on WUSB. This week, as most of us prepare for a visit by the man in the red suit from the North Pole, Conversations Unlimited is going to the South Pole. I'll be talking with Dr. Robert de Zafra and Dr. Philip Solomon. They recently returned from several months in Antarctica with a Stony Brook team of scientists. They are studying the mystery of a hole in the atmosphere's ozone layer. I hope you'll take time out from your holiday preparations to listen to Conversations Unlimited, Tuesday, at 6 p.m., on WUSB 90.1 FM.