

CEEC Panel Presentation

June 24, 2004

“Appropriate Technology for
Developing Countries”

CEEC Panel Session

“Appropriate Technology for Developing Countries”

Panelists -

- ✓ Matthew Green University of Texas
- ✓ Frank T. Duda Grove City College
- ✓ Job Ebenezer Messiah College
- ✓ Jim Farison Baylor University

Related CEEC Program Components

1:15 – 2:45 pm Session -

Engineering and Mission Outreach

1. “Service-Learning Approaches to International Design Projects: Assessment of Spiritual Impact”

Green, Duda, et al.

3. “Opportunities and Challenges at Engineering Ministries International (EMI)

Panel - Appropriate Technology for Developing Countries

Schedule - 3:15 – 4:45 pm

Plan –

3:15 – 3:20 pm ✓ Introduction of session and panelists

3:20 – 4:20 pm

Presentations by panelists

3:20 – 3:35

Matthew Green, “Personal AT Journey”

3:35 – 3:50

Frank Duda, “Three Ugandan Projects”

3:50 – 4:05

Job Ebenezer, “Technology for Poor”

4:05 – 4:20

Jim Farison, “AT Initiatives at Baylor U.”

4:20 – 4:30 pm

Additional reports from audience

4:30 – 4:45 pm

Open discussion, what’s next?

Introduction of Panelists

Matthew Green is an ME Ph.D. candidate at the U. Texas.

The objective of his research is to facilitate the use of engineering design to improve the quality of life in developing countries. His current focus is developing methods and techniques to train and equip engineers to design for frontier design environments, with special emphasis on poor areas of developing countries.

His previous research has included small-scale remote power generation, solar drying, solar desalination, and low-cost water supply systems.

Matthew has worked for EMI in Colorado Springs, and consulted with the Institute for Affordable Transportation in Indianapolis.

He has also worked for the Information Service of the German Appropriate Technology and Ecoefficiency Programme in Eschbon.

Introduction of Panelists

Frank Duda has been at **Grove City College, Grove City, PA, since 1979, where he is now professor of electrical engineering.**

He received his B.S., M.S. and Ph.D. degrees from the University of Pittsburgh, and served at Allegheny County Community College from 1968-1979.

Frank has **traveled to Uganda four times since July 2000.** In his most recent trip, earlier this summer, he visited:

eight rural churches,
technology faculty at Makerere University,
faculty and administration at Uganda Christian University,
Ugandan government officials, and
the chief administration and Catholic bishop at the new Bunyoro University in Hoima.

Introduction of Panelists

Job Ebenezer is currently **visiting assistant professor of engineering at Messiah College**, in Grantham, PA. He received his BS from U. Madras, MS from IIS, and PhD in ME from Stevens Institute of Technology.

His **interests include global sustainability, urban agriculture, and appropriate technologies for poor people.**

He designed a course on Global Sustainability which emphasized **Biblically-based “earthkeeping.”**

His visits for consultations on sustainable development have included India, Thailand, Belize, Ecuador, Guatemala, and Mexico.

He has been invited to speak on earthkeeping at various universities, church conferences, and secular environmental gatherings.

Introduction of Panelists

Jim Farison is professor of engineering at Baylor University, where he chairs the department of engineering (which includes Steve Eisenbarth and Ken Van Treuren, whom you will hear tomorrow morning) and reports to Dean Ben Kelley (whom you heard earlier this afternoon).

His office is next to Walter Bradley, whom you are not hearing at this conference and from whom he inherited this assignment. [Hey, what is a department chair for, anyway?]

Over the past six years, the department has grown from a single BS major (EGR, with ECE and ME options) to three separately accredited BS degrees (ECE, ME, and EGR), initiated a masters program (with MS in ECE, ME and BME, and a Master of Engineering, with an appropriate technology option), sponsored a successful “AT” symposium (May 17-18) and grown from 10 full-time faculty positions to 17.

Talk about growing pains!!!

Panel - Appropriate Technology for Developing Countries

Schedule –

- | | |
|----------------|--|
| 3:15 – 3:20 pm | Introduction of session and panelists |
| 3:20 – 4:20 pm | ✓ Presentations by panelists |
| 3:20 – 3:35 | Matthew Green, “Personal AT Journey” |
| 3:35 – 3:50 | Frank Duda, “Three Ugandan Projects” |
| 3:50 – 4:05 | Job Ebenezer, “Technology for Poor” |
| 4:05 – 4:20 | Jim Farison, “AT Initiatives at Baylor U.” |
| 4:20 – 4:30 pm | Additional reports from audience |
| 4:30 – 4:45 pm | Open discussion, what’s next? |