



CACCE Workshop on Impacts of Climate Change over the Caribbean Countries

Challenges and Required Capacities for Refrigeration Sector

Role of Tertiary Institutions and Universities in HCFC Elimination

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American College and University Presidents' Climate Commitment

“We believe colleges and universities must exercise leadership...by modeling ways to minimize warming emissions, and by providing the knowledge and educated graduates...”



Challenges and Opportunities

Three Main Actors in Tertiary Sector:

- 1. Students**
- 2. Academics/Researchers/Educators**
- 3. Institutions**



Student Centered Challenges

❖ **Student Attitudes**

❖ **Curriculum Oversaturation**

Student Centered Opportunities

- ✓ **International Portability of Qualifications**
- ✓ **Better Suitability to new Industry Demands**
- ✓ **Over Discipline “Silo” Effect**
- ✓ **Students Better Prepared for ODS Elimination**



Academic/Educator Centered Challenges

- ❖ **Academics Have to Keep Current with R & D in ODS Elimination**
- ❖ **Inadequately Prepared Student Intake**
- ❖ **Reluctance to Interdisciplinary Teaching**



Academic/Educator Centered Opportunities

- ✓ **Interdisciplinary Approach**
- ✓ **Systems Approach to HCFC Phase Out**
- ✓ **Research Areas with Funding Opportunities**
- ✓ **Upgrade Personal Knowledge**



Institution Centered Challenges

- ❖ **Commitment of Adequate Resources**
- ❖ **Resistance to Change**
- ❖ **Non-Supportive Environment**
- ❖ **In-House Institutional Policy on HCFC Phase-Out**



Institution Centered Opportunities

- ✓ **Important R & D Opportunity**
- ✓ **Keeping Students on the Cutting Edge**
- ✓ **Funding Opportunities for Research**
- ✓ **Continuing Professional Development of Graduates**



Recommendations

- ❑ **Introduce Compulsory courses**
- ❑ **Elective Courses for Interdisciplinary Teaching**
- ❑ **Short Courses Targeting Graduates**
- ❑ **Training Courses for Service Personnel**
- ❑ **Training Courses for Government Inspectors
e.g. Customs Officers**
- ❑ **Inter-University Collaboration**
- ❑ **Special research projects on New and Natural refrigerants**
- ❑ **Studies to Improve Refrigeration Efficiency**



Conclusions

- **Education is Critical for Capacity Building**
- **HCFC/ ODS Elimination Must be Integrated into the Curriculum**
- **Academic/Educators Must Acquire Requisite Knowledge**
- **Collaboration Among Latin American and Caribbean Universities and Research Institutions**



THANK YOU !

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