International Drivers: South America / Brazil

ANSI Biofuels Standards Panel (ANSI-BSP)
Inaugural Meeting

May 9, 2007
Westin Arlington Gateway — Arlington, VA

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Chief Scientist, NIST
Department of Commerce
Brazil: Long experience with ethanol

- 30 year history of development
  - 1975 National Alcohol Program
  - 1979 Ethanol Cars Production

- Road to energy self-sufficiency
  - >25% admixture of EtOH by Law
  - >40% of fuel used for transportation
  - 4.3 billion gallons per year production

- Successful technology development
  - 1979 Ethanol only cars
  - 2001 FFV production started
  - >70% of passenger cars sold are FFVs

- Drive to expand bioethanol market and exports
  - 2000 4.5 Mtons Sugarcane exports  200 Ktons Ethanol exports
  - 2004 9.5 Mtons Sugarcane exports  1.8 Mtons Ethanol exports
US-Brazil Commercial Dialogue

- Commerce Secretary Gutierrez and MDIC Minister Furlan
  - Meeting in Rio de Janeiro, June 2006
  - Meeting in Washington, DC, November 2006
  - Four WGs formed – one on Standards

- Workshop on Measurements and Standards for Biofuels
  - September 2006, Rio de Janeiro
  - Jointly organized by INMETRO and NIST

- Digital Video Conference (DVC) series
  - ITA/NIST and INMETRO exchange information via DVC to promote a better understanding of the standards, conformity assessment and regulatory systems in each country
  - Future DVC planned on Biofuels
INMETRO-NIST Workshop

- Workshop on Measurements and Standards for Biofuels
  - September 14-15, 2006, Rio de Janeiro
  - Jointly organized by INMETRO and NIST
  - Strong participation by Brazilian biofuels industry and government agencies

- Conclusions:
  - Review biofuels specifications to increase compatibility
  - Review materials compatibility data and testing technology
  - Evaluate reference methods, available CRMs and field methods
  - Evaluate thermophysical property data needs
US - Brazil MOU to Advance Cooperation on Biofuels

MOU Signed on March 9, 2007, during President Bush’s visit to Brazil. Three-pronged approach:

- **Bilateral:**
  - Advance R&D on next-generation biofuels technology
  - Leverage existing cooperative efforts

- **Third Countries:**
  - Bring benefits of biofuels to select third countries
  - Focus on Central America and the Caribbean

- **Global:**
  - Expand the biofuels marketplace through cooperation on the establishment of uniform standards and codes
  - Leverage existing cooperation between INMETRO and NIST
UN International Biofuels Forum

- Launched on March 2, 2007
- Members: Brazil, China, India, South Africa, US, EC
- Objective: Initiate a mechanism for dialogue among biggest producers and consumers of biofuels
- Development and sustained use of biofuels would contribute to social and economic development, diversifying energy sources while reducing greenhouse gas emissions
- Two WGs:
  - Information Exchange
  - Standards and Codes
Other Events

- International Conference on Biofuels Standards
  - Brussels, February 2007

- President Lula’s visit to the US
  - March 30, 2007

- International Conference on Biofuels
  - Brussels, July 5-6, 2007
  - President Lula visiting EU, July 4, 2007
  - International Biofuels Forum Meeting

- INMETRO/NIST Symposium on Biofuels
  - Washington, DC, June 28-29, 2007

- *Washington Post Column*
- *Our Biofuels Partnership*
  By Luiz Inácio Lula da Silva
  Friday, March 30, 2007; A17
Biofuels Standards: Greater Compatibility?

- Follow up to the Brussels Meeting and the ANSI-NIST Meeting
- Forming two WGs: Bioethanol and Biodiesel

Objectives:
- Identify areas within existing standards where greater compatibility can be achieved in the short and long term
- Identify the need for additional performance data
- Review consistency of test methods to ensure comparability of results
- Analyze costs and benefits of modifying existing standards
- Make recommendations to develop consistent terminology