



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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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
 - Three DVCs held – Aug. 2006, Dec. 2006, March 2007
 - 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

• *Washington Post Column*

□ President Lula's visit to the US

— March 30, 2007

• **Our Biofuels Partnership**

By Luiz Inácio Lula da Silva
Friday, March 30, 2007; A17

□ 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



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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

