



ASABE and International Standardization: A Decade of Harmonization and Collaboration

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"International standards: opportunity or problem"

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ASABE as an Organization

- ASABE has ~8,000 members in 100 countries
- Diverse membership interests: machinery, irrigation, safety, electronics, aquaculture, food processing, & more
- We are based in St. Joseph, Michigan, United States





ASABE Standards Development

- ASABE - primary standards development organization for agricultural machinery and systems in North America
- ANSI - accredits (and audits) ASABE (and others; ASTM, ASME, SAE, etc.)
- International standards (ISO) activities are an ongoing priority and focus. ASABE is a member-led organization, and this is the direction from the members.



Organizational Alignments

- AEM
(Association of
Equipment
Manufacturers)
- CropLife America
- Pellet Fuel
Institute
- SAE International
- USDA
- Farm Equipment
Manufacturers
Association
- Outdoor Power
Equipment Institute
- The Irrigation
Association
- Agricultural Retailers
Association
- And many more....



The Benefits of ISO



- “One Standard, One Test, One Certificate of Conformity Worldwide”
- Nearly 20,000 published standards – and expanding as needed to meet newly identified needs
- Eliminates need to compare national, or regional, standards for different requirements



ISO Technical Committee 23

- Tractors and machinery for agriculture and forestry
- Founded in 1952
- 24 participating countries
- 41 observing countries
- 350 published standards under ISO/TC23 and the related subcommittees
- In comparison:
 - ISO/TC1 was founded in 1947 and covers screw threads
 - ISO/PC288 was recently approved to cover educational organizations management systems



Ways that ASABE engages with the international standardization process:

- Administrator the US position for specific ISO technical committees and subcommittees.
 - Note: ASABE has an established technical committee that “mirrors” each ISO committee affiliation
- National Adoptions of ISO International Standards
- IBR – Incorporation by Reference
- The SAE and CSA Process: Industry Endorsement (For CSA eliminates the need for French Translations)



Scope of ISO/TC 23, Tractors and Machinery for Ag & Forestry

The eight assigned ASABE subcommittees include:

- SC2, Common tests
- SC3, Safety and comfort of the operator
- SC4, Tractors
- SC6, Equipment for crop protection
- SC7, Equipment for harvesting and conservation
- SC14, Operator controls, operator symbols and other displays, operator manuals
- SC18, Irrigation and drainage
- SC19, Agricultural electronics

Note: There are 3 additional ISO/TC23 subcommittees not assigned to ASABE. ASABE also administers IEC/SC61H, Safety for electrically operated farm appliances



Safety, Safety, Safety

- While the titles of the various ISO/TC23 subcommittees do not all contain specific reference to safety, it is an important topic in a huge percentage of the standards work.
- ASABE members are involved in safety in many ways beyond standards development.
- ASABE collaborates with multiple North American safety organizations and events.



National Adoptions of ISO Standards

- The ASABE Standardization Procedures allow adoptions of international standards identically or with deviations.
- ASABE now publishes 20 standards that were identically adopted and 20 standards adopted with deviations.
- 10 more adoptions projects are in the queue. The next group includes a group of standards from the 11783 portfolio.
- Many of these adoptions were originally based on ASAE or SAE content. All are machinery related.



Incorporation by Reference

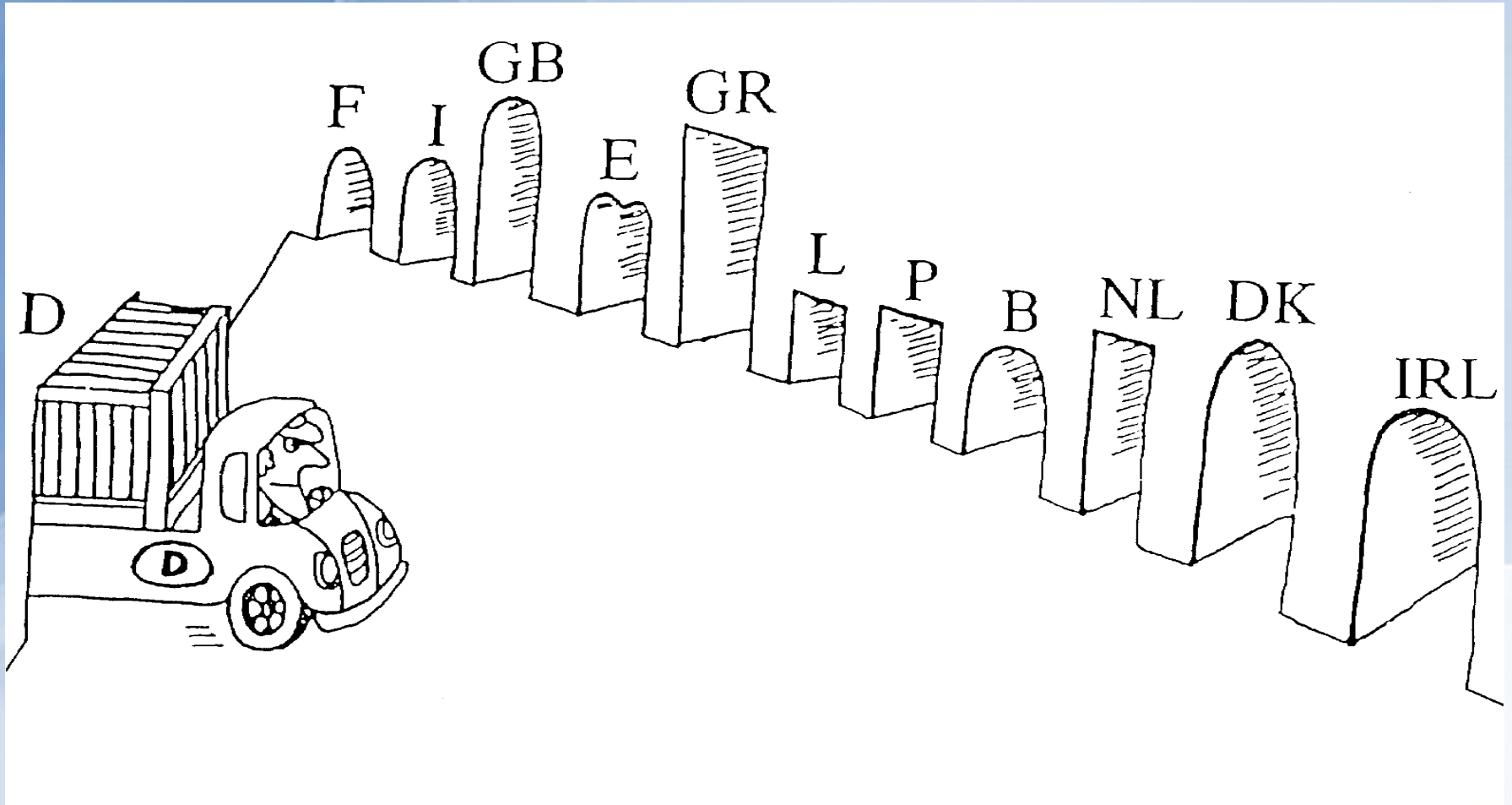
- A standard does not need to be reprinted to be formally acknowledged by a standards-developing organization.
- In some cases, a national standard will specifically include reference to a published ISO standard. This could be in part or in whole.
- This has been a strategy taken with the ISO 4254 series of standards at this time. As a next step, ASABE members have indicated a desire to nationally adopt various parts of the 4254 series.



The SAE Process: Industry Endorsement

- SAE International and the Canadian Standards Association have chosen not to nationally adopt and reprint the content of the ISO standards.
- They have each developed an approval process to endorse the use of various international standards.
- This eliminates issues with royalty payments but requires the users to directly purchase the ISO standards.

The Importance of International Standards





Thank You!

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