

## D16 Subcommittees and Standards

- D16.01, Benzene, Toluene, Xylenes, Cyclohexane and Their Derivatives
- D16.02, Oxygenated Aromatics
- D16.04, Instrumental Analysis
- D16.05, Editorial and Nomenclature
- D16.06, Statistics and Quality
- D16.07, Styrene, Ethylbenzene and C9 and C10 Aromatic Hydrocarbons
- D16.08, Handling and Sampling Aromatic and Cyclic Hydrocarbons
- D16.09, On-Line Analysis
- D16.10, Acids
- D16.12, Caustics and Peroxides
- D16.13, Chlorine
- D16.14, Alcohols & Glycols
- D16.90, Executive
- D16.91, Proficiency Testing Program (PTP) Advisory
- D16.92, Bylaws
- D16.93, Long Range Planning
- D16.94, Publicity
- D16.96, Honors and Awards
- D16.97, Membership
- D16.98, Planning and Development

## D16 Proficiency Testing Program

ASTM International Proficiency Testing Center is pleased to offer a Proficiency Testing Program on Aromatic Hydrocarbons to laboratories who need a statistical quality assurance tool that will enable them to improve, and maintain a high level of performance in conducting routine ASTM aromatic hydrocarbon tests by comparing their results with other laboratories worldwide doing the same testing.

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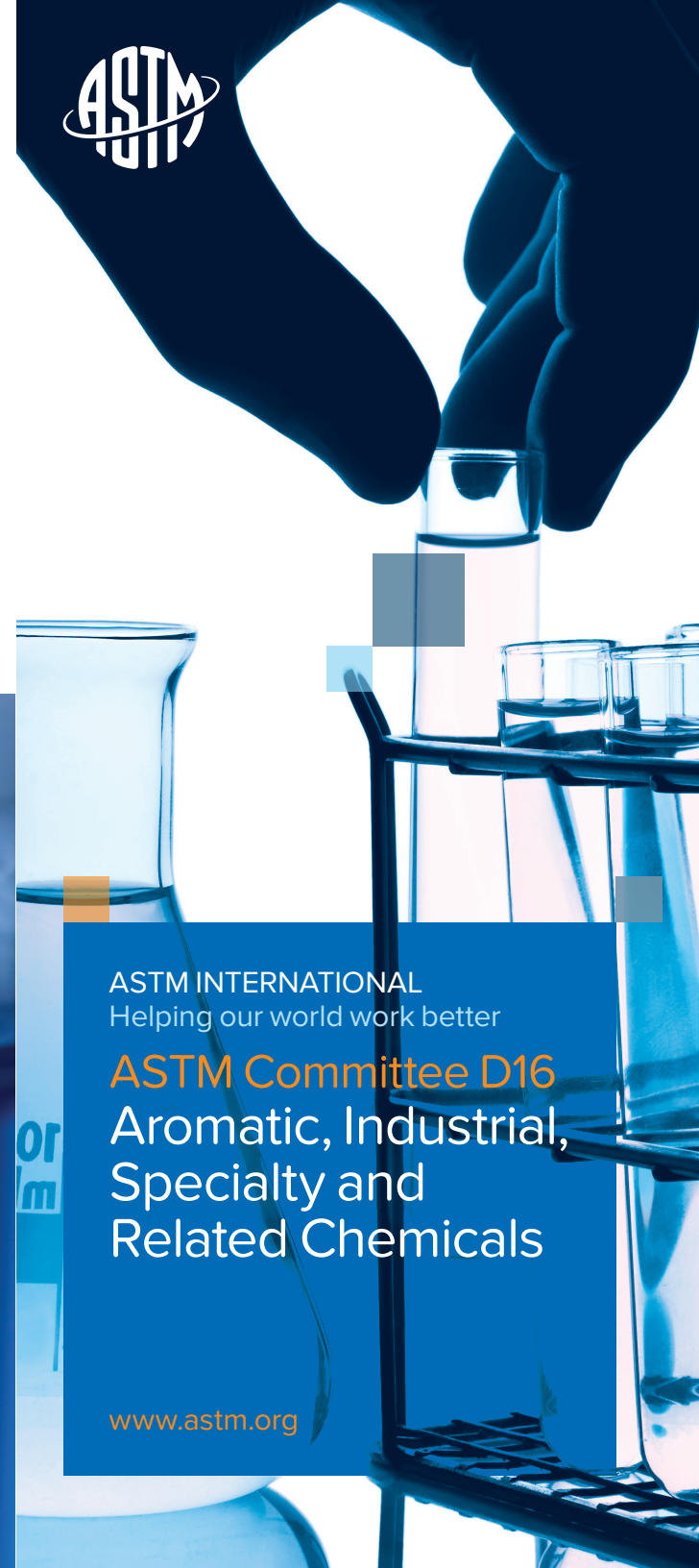
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## Guiding Principles for Improvements in Specifications and Test Methods

- Develop and maintain specifications that are representative of commercially produced product.
- Review all methods to conform to current, yet proven techniques.
- As methods are reviewed, where appropriate, the method should be updated to include the latest technology available.

## Six principles were identified as key elements of the Committee's Long Range Plan:

### Principle One: Encourage Less Labor-intensive Analyses

#### Objective

To develop and maintain new and revised Test Methods which require substantially less analyst labor time, at no loss of precision or bias.

#### Goal 1

Develop instrumental techniques to replace manual techniques.

#### Goal 2

In gas chromatography, where appropriate, find alternatives to internal standard calibration.

#### Goal 3

Eliminate or combine redundant methods, where appropriate.

### Principle Two: Eliminate Qualitative and Redundant Properties in Specifications

#### Objective

To eliminate Qualitative and redundant properties in specifications, where appropriate.

#### Goal 1

At review time, every specification will have qualitative and redundant properties eliminated, where appropriate.

#### Goal 2

No new specification will be written with qualitative or redundant properties.

#### Goal 3

Develop and maintain specifications that are representative of commercially produced product.

### Principle Three: Develop Contemporary Chromatographic Techniques

#### Objective

To develop and revise methods to reflect the current state-of-the-art chromatographic methodology.

#### Goal 1

Solicit chromatography-related product vendors, suppliers and any experts to present new techniques to the committee, become committee members and participate in the method writing process.

#### Goal 2

As methods are reviewed, where appropriate, the method should be updated to include the latest proven technology, allowing for continuation of previously approved methodology that at a minimum, will meet current quality standards criteria.

#### Goal 3

Develop methods that utilize on-line, fast, state-of-the-art techniques.

### Principle Four: Promote New Elemental Analyzers

#### Objective

To develop and revise methods to reflect state-of-the-art elemental analysis technology.

#### Goal 1

Solicit analyzer vendors, suppliers and any experts to present new techniques to the committee, become committee members and participate in the method writing process.

#### Goal 2

Utilize newly marketed elemental analyzers as a replacement for, or alternative to, existing analytical techniques when there is a benefit in sensitivity, precision, freedom from interference, bias or labor time.

### Principle Five: Include QA/QC in Standards

#### Objective

To incorporate QA/QC in our standards so that the user will know the value of the data obtained.

#### Goal 1

An individual or subcommittee will assume ownership of using the QA/QC protocol and incorporating it in a new or revised standard, where appropriate.

### Principle Six: Improve Precision and Bias

#### Objective

To incorporate statistically relevant precision and bias information in all methods.

#### Goal 1

To ensure that all ILS (Inter-Laboratory Study) protocols and results are statistically designed and analyzed.

#### Goal 2

To ensure that participants understand the ILS protocol. qualitative or redundant properties.

#### Goal 3

To ensure that participants expend the necessary resources to perform the ILS as written.

#### Goal 4

Precision from one lab may be accepted initially, in order to expedite method publication. The full ILS must be completed within five years.

