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TODAY'S AGENDA

Introductions

Accreditation vs Certification

AASHTO re:source On-Site Assessments (LAP)

AASHTO Accreditation Program (AAP)

Proficiency Sample Program (PSP)

Q&A



ACCREDITATION VS CERTIFICATION



ACCREDITATION IS...

“ A third-party attestation related to a conformity assessment body* conveying formal demonstration of its competence to carry out specific conformity assessment tasks.

– ISO/IEC 17011 ”

* Conformity assessment body (CAB) = laboratory



ACCREDITATION IS...

A voluntary process in which an agency is evaluated for compliance against a certain set of established criteria

A confirmation by a third party that an agency has demonstrated competence to carry out certain duties and tasks

Example

Accredited college/university

CERTIFICATION IS...

Provides written assurance that a person, product, or process conforms to specified requirements and standards

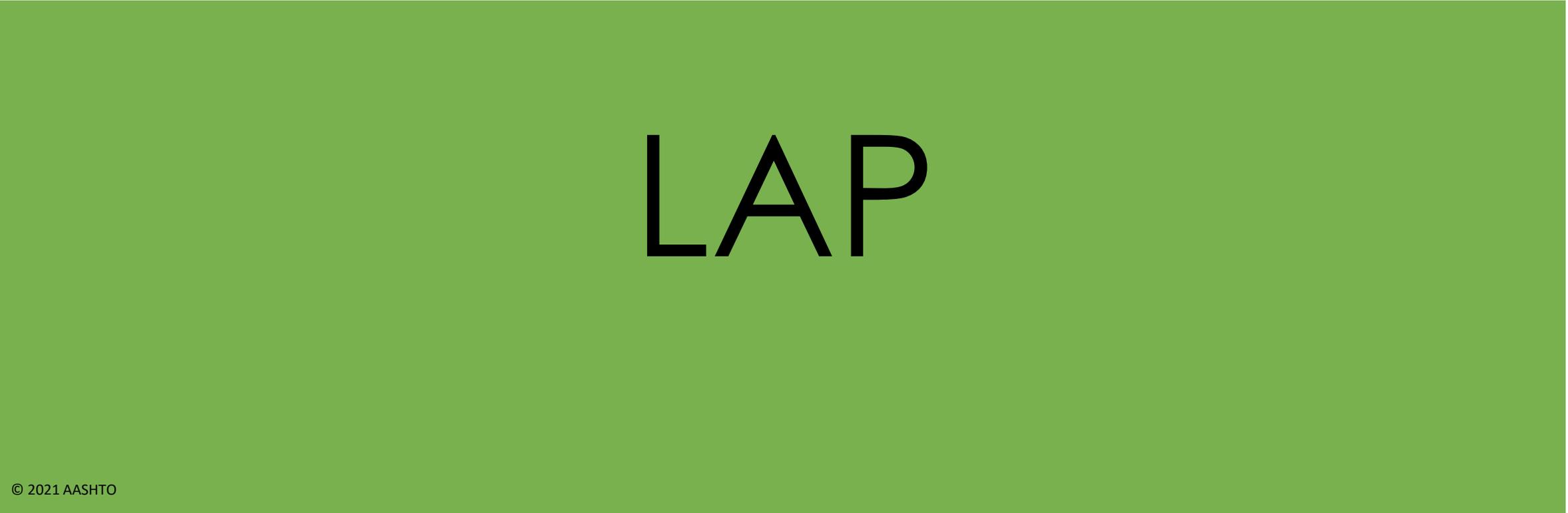
Examples

- USDA Organic Certified
- ENERGY STAR Certified





LABORATORY ASSESSMENT PROGRAM



LAP

LABORATORY ASSESSMENT PROGRAM

3rd party assessment conducted approximately every two years by a member of the Laboratory Assessment Program (LAP)

Objectively evaluates the conformance of a laboratory's testing procedures, equipment, quality management system, and staff certifications

Identifies opportunities for improvement

Knowledgeable assessment staff provide guidance and direction to testing technicians when deficiencies are noted



[Laboratory Assessment Process Video](#)

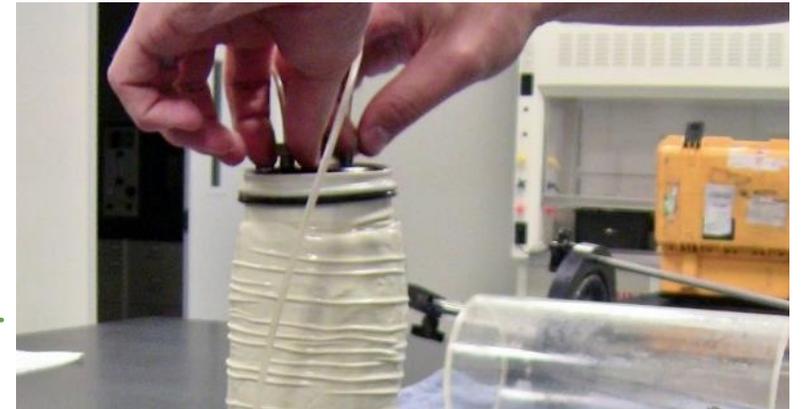
HISTORY OF THE LAP

Began conducting on-site assessments in 1966

Provided on-site assessments to evaluate the competence of testing laboratories (DOTs) to perform tests on construction materials

Our first assessment “tour” included 55 laboratories

Current assessment "tour" includes over 2,000 laboratories



ASSESSMENT DETAILS – WHAT DO WE DO?

On-Site Assessment: A detailed review of testing equipment, procedures and quality management system

AASHTO re:source conducts on-site assessments in all fifty states, Washington D.C., Canada, Puerto Rico, Guam, and Belgium

Average LAP Assessor spends over 150 days/year on the road



TYPES OF TESTING ASSESSED



Soil



Asphalt Binder



Hot-Mix Asphalt



Metals



Aggregate



Emulsions & Pavement Preservation



Sprayed Fire-Resistive Materials (SFRM)



AASHTO ACCREDITATION PROGRAM

AAP

A Beginner's Guide to AASHTO Accreditation



STEP 1: REGISTER YOUR LABORATORY

secure | aashtoresource.org/registration

 (formerly AMRL) New customer? [Register here](#) Menu

I do not have an AASHTO re:source online account.

If you are a brand new lab, please complete the following form:

[Request Laboratory Registration](#)

You will then be contacted with an Access Code and Passkey required to register your laboratory for online access to the AASHTO re:source website. Please contact us at 240-436-4900 if you encounter any issues during this process.

I need to register my account. I have an access code and passkey.

To register your laboratory, enter the Access Code and Passkey that you received from AASHTO re:source.

Access Code:

Passkey:

[Register](#)

AASHTO ACCREDITATION PROGRAM

The AASHTO Accreditation Program (AAP) was established by AASHTO in June 1988 (see 23 CFR 637.209).

The objective of AAP is to provide a mechanism for formally recognizing the competency of a testing laboratory to perform specific tests on construction materials.

The basis of the accreditation program is AASHTO R 18.

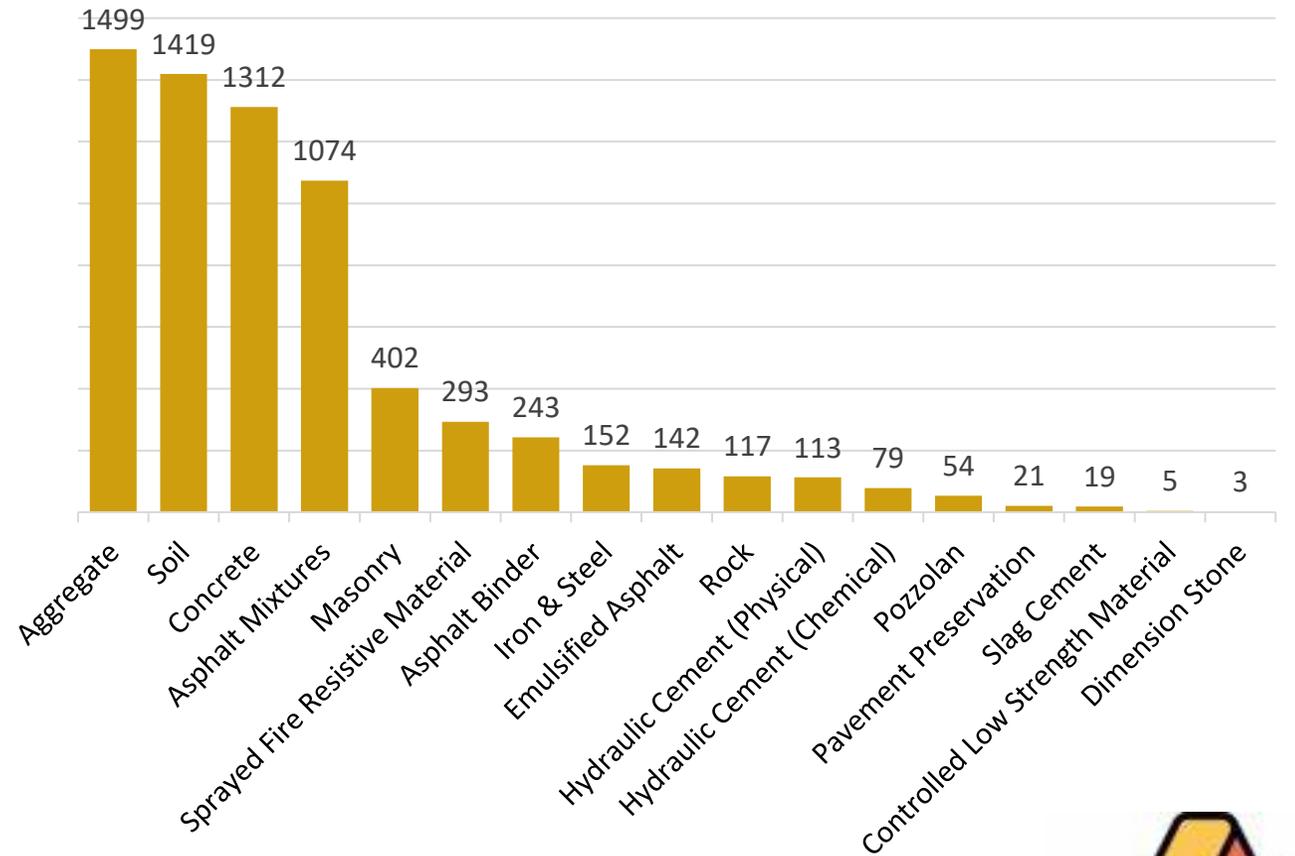
It is a voluntary program available to all independent laboratories, producer laboratories, university laboratories, and governmental laboratories.



ACCREDITED LABORATORIES BY SCOPE

The program continues to expand and grow with new test methods being added by AASHTO re:source and CCRL all the time.

There are currently 2,010 [AASHTO Accredited laboratories.](#)



AASHTO R 18

A quality management system standard maintained by the AASHTO Committee on Materials and Pavements.

Includes requirements for:

- Training
- Competency evaluation
- Equipment management
- Internal audits
- Management reviews
- Corrective actions



ACCREDITATION PROGRAM MANUAL

Contains accreditation requirements such as:

- On-site assessments
- Proficiency samples
- Accreditation policies



PROFICIENCY SAMPLE PROGRAM

PSP

PROFICIENCY SAMPLE PROGRAM

- Soil Classification and Compaction
 - Soil Resistance R-Value
 - Soil California Bearing Ratio (CBR)

 - Coarse Aggregate
 - Fine Aggregate

 - Viscosity Graded Asphalt Cement
 - Performance Graded Asphalt Binder
 - Emulsified Asphalt
 - Polymer Modified Emulsion (~2023)
- Slurry and Micro-Surfacing Systems

 - Asphalt Mixture Solvent Extraction
 - Asphalt Mixture Gyratory Design
 - Asphalt Mixture Marshall Design
 - Asphalt Mixture Hveem Design
 - Asphalt Mixture Ignition Oven

 - Traffic Paint

PROFICIENCY SAMPLE PROGRAM

Samples are produced at our facility

Testing is conducted before shipping to ensure homogeneity

Participants perform testing

All data is used to determine average and standard deviations

Ratings are assigned and used for accreditation monitoring



[Proficiency Sample Program Overview Video](#)



SAMPLE PREPARATION-ASPHALT MIXTURE

SLURRY AND MICRO SYSTEMS PROFICIENCY SAMPLE SCHEME

First round was in 2016

Test methods include:

ISSA TB-113 – Mix Time

ISSA TB-100, ASTM D3910, ASTM D6372 – Wet Track Abrasion

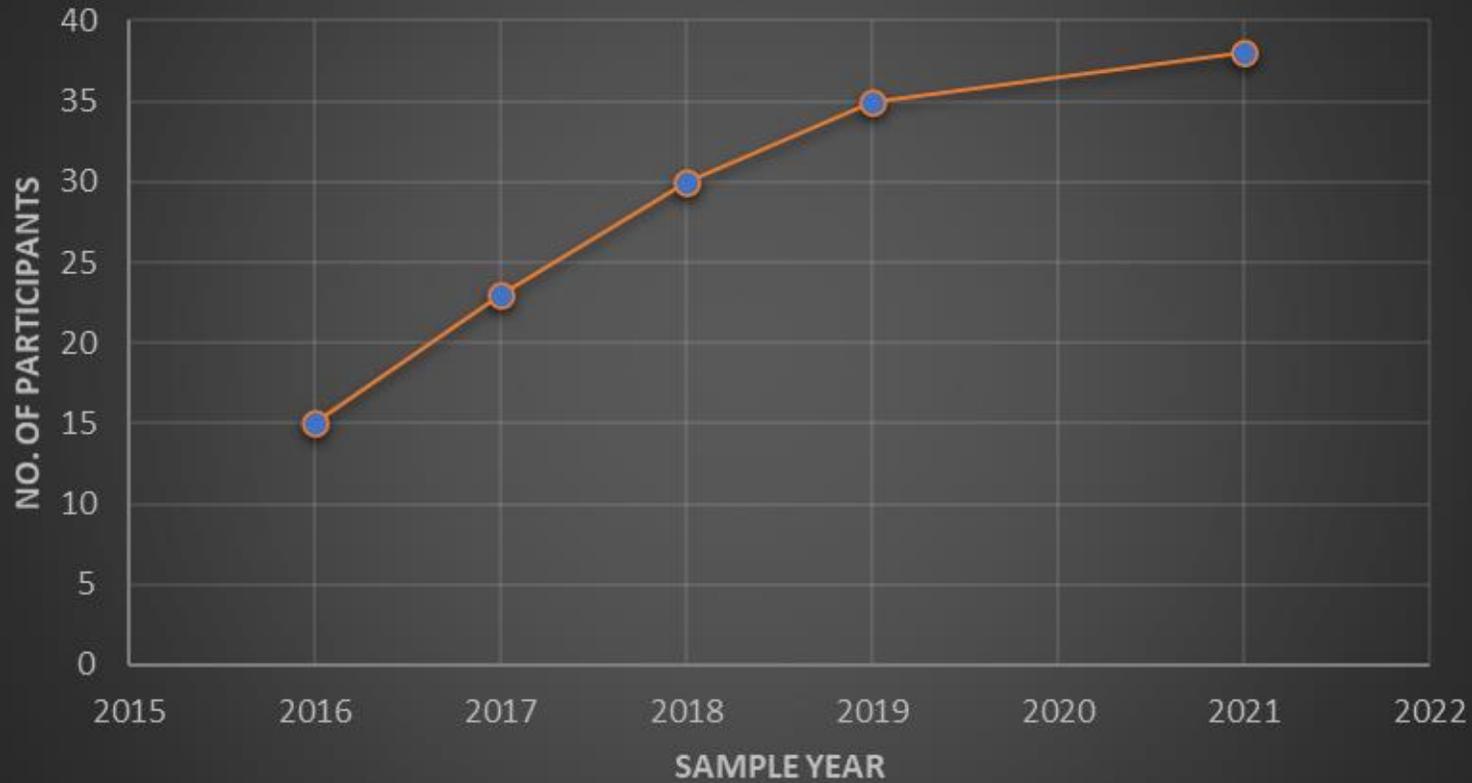
ISSA TB-109 – Excess Asphalt in Mixtures by Loaded Wheel with Sand Adhesion

ISSA TB-139, ASTM D3910, ASTM D6372 – Set and Cure Time by Cohesion Tester

ISSA TB-147, ASTM D6372 – Vertical and Lateral Displacement by Loaded Wheel Tester

ASTM D3910 – Set Time

Slurry and Micro Participation



ENROLLMENT

No PP round in 2020 due to COVID-19

EMULSION PROFICIENCY SAMPLE SCHEME

T59	D6934	Residue by Evaporation of Emulsified Asphalt
T59	D6997	Residue by Distillation of Emulsified Asphalt
T59	D7496	Viscosity of Emulsified Asphalt by Saybolt Furol Viscometer
T382	D7226	Determining the Viscosity of Emulsified Asphalt by a Rotational Paddle Viscometer

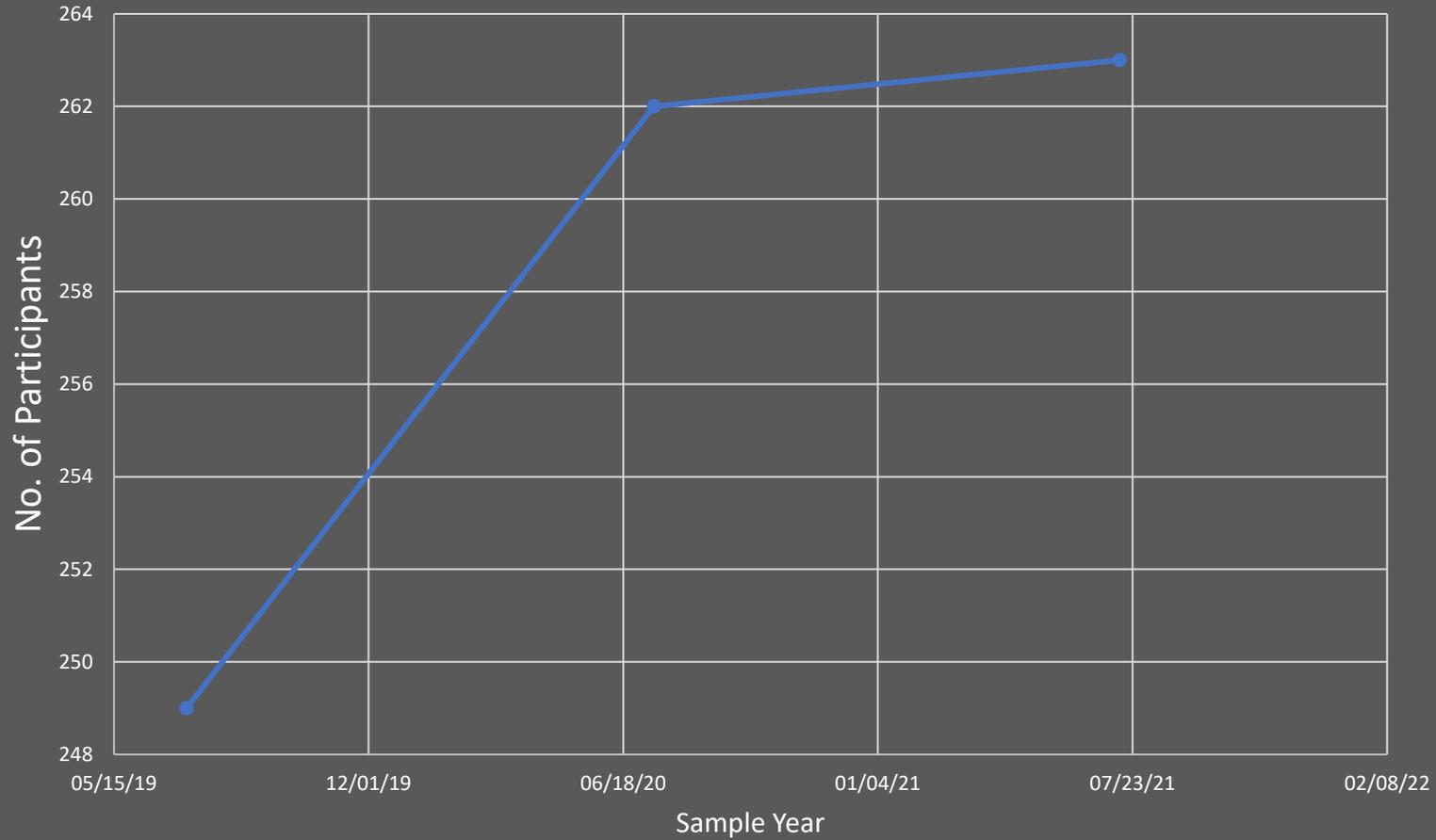
Tests on Residue by Distillation

T44	D2042	Solubility of the Residue in Trichloroethylene
T49	D5	Penetration of the Residue
T59	D6934	Residue by Distillation of Emulsified Asphalt

Tests on Residue by Evaporation

T44	D2042	Solubility of the Residue in Trichloroethylene
T49	D5	Penetration of the Residue
T59	D6934	Residue by Evaporation of Emulsified Asphalt

Emulsion PSP Participation



ENROLLMENT

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