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**18 – 21 FEBRUARY 2023**

RIYADH FRONT EXHIBITION AND  
CONFERENCE CENTER (RFECC)

# ACI Updates: New Initiatives for Advancing Concrete Industry

Ahmad Mhanna

Concrete Talks, February 20, 2023

# An Update on Innovation Activities at the American Concrete Institute

Ahmad Mhanna  
Director, Middle East /North Africa Region  
American Concrete Institute



American Concrete Institute

*Always advancing*

*ACI envisions a future where everyone has the knowledge needed to use concrete effectively to meet the demands of a changing world.*

\* \* \* \* \*

ACI develops, disseminates, and advances the adoption of its consensus-based knowledge on concrete and its uses.



# American Concrete Institute

Founded in 1904

Nonprofit technical and  
educational society

“The National  
Association of Cement  
Users”



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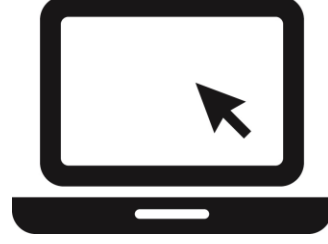
Membership  
Networking  
Conventions  
Chapters



Technical Documents  
Publications  
Concrete International  
Journals  
Digital Subscriptions



Certification Training  
Certification Exams



ACI University  
Webinars  
Online Learning



ACI Foundation  
Research  
Scholarships  
Thought Leadership



# ACI's Physical Locations...



**ACI World Headquarters**  
Farmington Hills, MI USA



**ACI Resource Center – Southern California**  
San Bernardino, CA USA



**ACI Middle East Regional Office**  
Dubai, UAE



**ACI Resource Center – Chicago/Midwest**  
Elk Grove Village, IL USA



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# + Digital Locations



concrete.org



 Concrete **SmartBrief**

 Concrete **SmartBrief** | Middle East

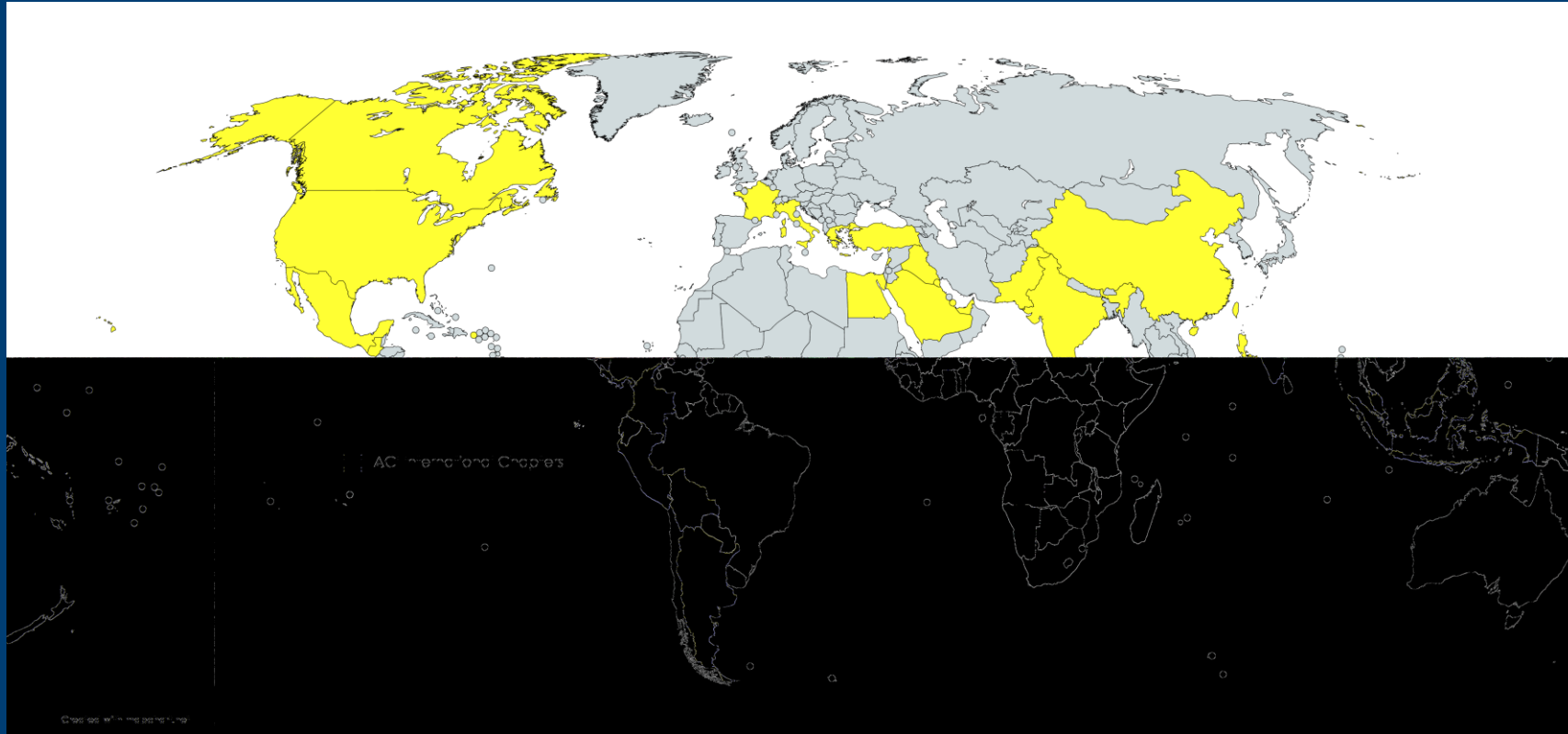
# *An Institute of Members, Chapters & Partners*

- More than 30,000 Institute members from 120+ countries.
- ACI has more than 315 Chapters and Student Chapters around the world.
- ACI has signed 57 partner agreements with international organizations interested in concrete.
- Engineers, researchers, students, contractors, architects, educators, manufacturers, producers, government and more.

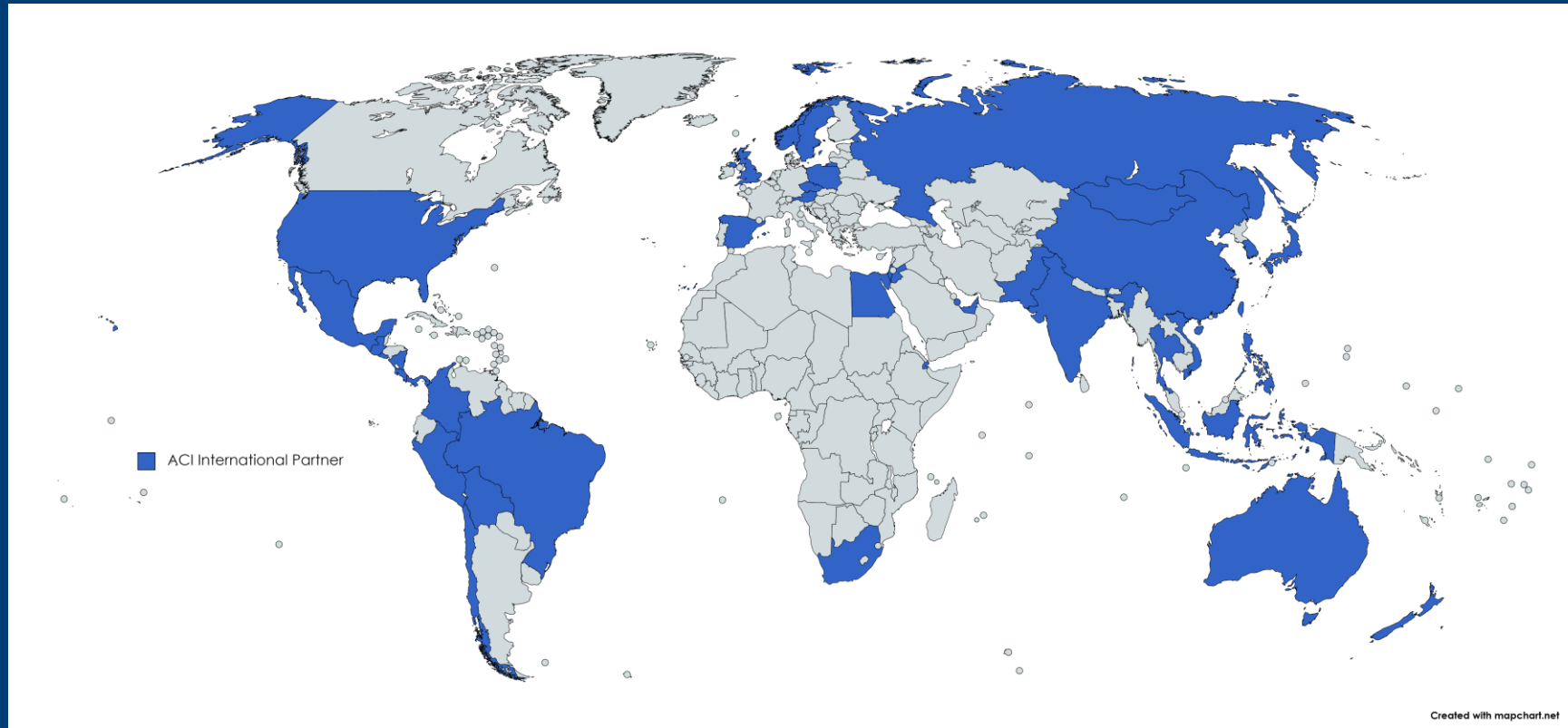




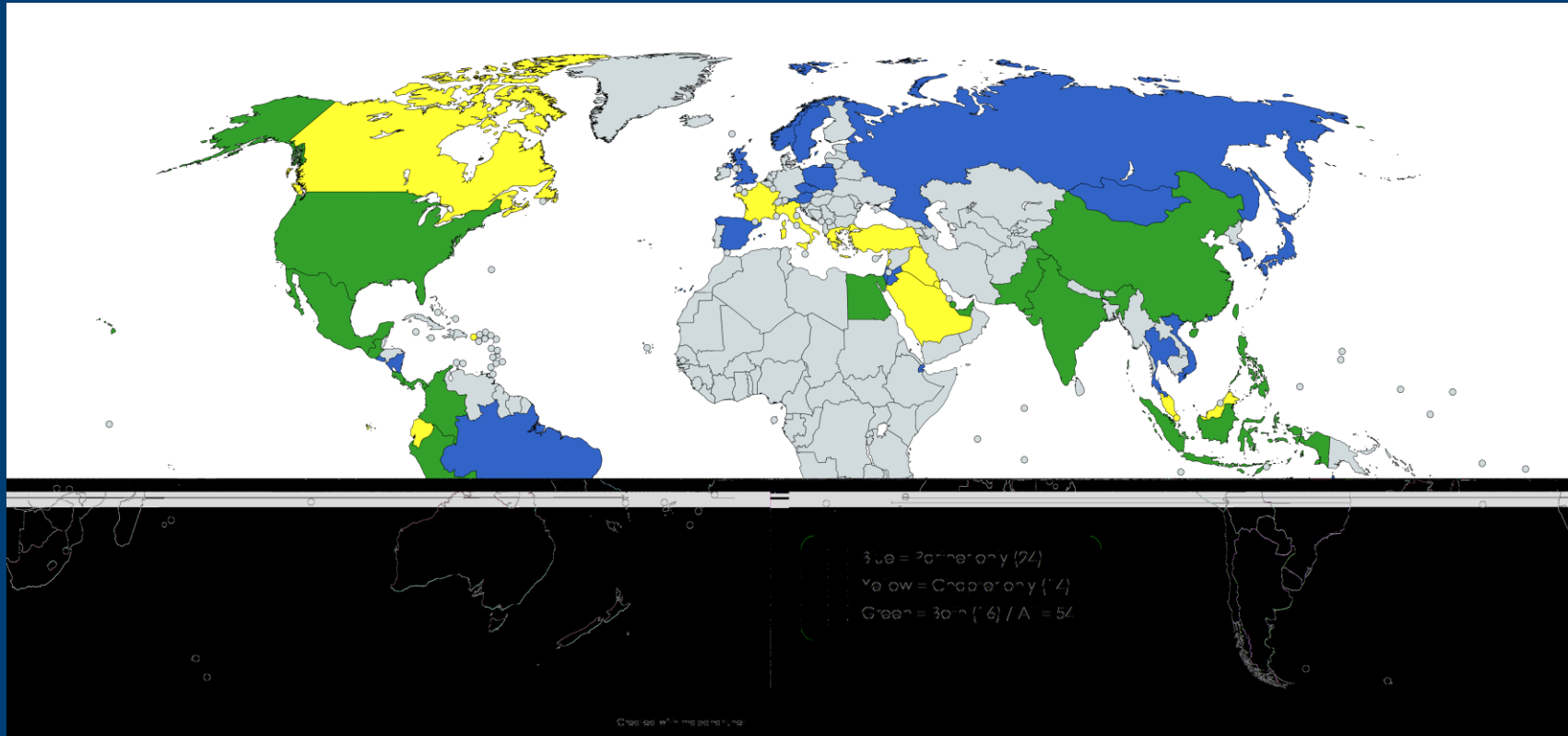
# 41 International Chapters in 30 Countries:



# 57 International Partners in 40 Countries:

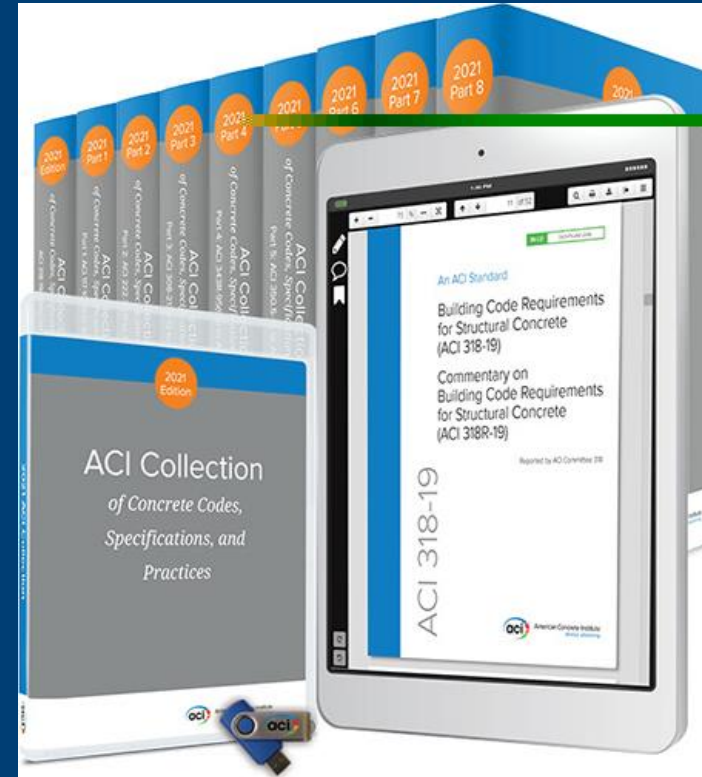


# An International Partner or Chapter in 54 Countries:



# ACI Collection of Concrete Codes, Specifications, and Practices

- Contains nearly 50 codes and specifications and more than 200 practices.
- Includes ACI CODE-318-19, ACI SPEC-301-20, and ACI CODE-562.
- Also covers concrete materials, properties, design, construction, reinforcement, repair, structural analysis, and innovation—plus popular topics such as slabs, formwork, masonry, and more.
- Available in three formats—an online subscription that is always up-to-date and includes historic editions of codes and specifications; a USB drive for convenient digital access anywhere, with or without an internet connection; and an eight-volume set of books.





# Needs





# aci® 318 PLUS+



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# ACI 318 PLUS



ACI 318 PLUS is an annual subscription that provides subscribers with digital interactive access to ACI CODE 318-19 along with in-document access to related resources and enhanced digital search features through all code provisions and commentary. Also including:

- Full digital interactive access to the ACI Detailing Manual and the ACI Reinforced Concrete Design Handbook
- Ability to make digital notes alongside ACI 318-19 provisions and commentary
- Navigate content by section, by chapter, and/or by provision



# ACI PLUS Platform

- **ACI 318**
  - Most well-known document
  - Terse, mandatory language
  - Other documents?





# ACI CODE-440

- ACI CODE-440: Building Code Requirements for Structural Concrete Reinforced with Glass Fiber-Reinforced Polymer (GFRP) Bars

IN-LB Inch-Pound Units

An ACI Standard  
An ANSI Standard

Building Code Requirements  
for Structural Concrete  
Reinforced with Glass Fiber-  
Reinforced Polymer (GFRP)  
Bars—Code and Commentary

Reported by ACI Committee 440

ACI CODE-440.11-22

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An ACI Standard

Building Code Requirements  
for Structural Concrete  
(ACI 318-19)

Commentary on  
Building Code Requirements  
for Structural Concrete  
(ACI 318R-19)

Reported by ACI Committee 318

ACI 318-19



In preparation  
for 2025 edition



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# The Future of Sustainability: ACI CODE-318-25

## ACI 318 Subcommittee N - Sustainability

Two main objectives:

- Write a new proposed Appendix for ACI CODE-318-25
  - Provides optional sustainability provisions
  - Used when a project requires sustainable design practices
- Review of existing ACI 318 material provisions
  - Coordinate provisions with sustainability concepts



# NEx – Launched March 2021



A catalyst for global collaboration on the use of nonmetallic building and construction materials in areas of education, awareness, research, standards development, and adoption.





# Accepting Partners

NEx: An ACI Center of Excellence for Nonmetallic Building Materials partners with leading organizations focused on accelerating the use and technology of nonmetallic materials and products in construction.

Learn more at [www.nonmetallic.org](http://www.nonmetallic.org)



# neu – Launched Spring 2022



**Collaborate globally to drive research, education, awareness, and adoption of the use of carbon-neutral materials and technologies in the built environment.**

# ACI Sustainability Initiatives – Current Partners

Sustaining Members



Supporting Members



Affiliate Members



OZINGA



ceEntek



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**Overall “Excellence” Award  
Winner/  
First Place – Mid-Rise Buildings**

*King Abdulaziz Center for World Culture  
(ITHRA),  
Located in Dhahran, Eastern Province, Saudi  
Arabia, Awarded Highest Honor*



## First Place – Low-Rise Buildings

Hamad Port Project – Design and Build of  
Visitors Centre – Doha, Qatar.



## First Place – Decorative Concrete

Qatar National Library – Doha, Qatar.



# ACI in the Middle East



2020



First Place –  
Decorative Concrete



King Abdullah Petroleum Studies  
and Research Center, Saudi  
Arabia



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Concrete Conference  
Codes, Standards &  
Concrete Best Practices

Riyadh, Saudi Arabia  
*28-29 November 2023*



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# *Thank you*

For the most up-to-date information please  
visit the American Concrete Institute at:

[www.concrete.org](http://www.concrete.org)

