

JANUARY 2024



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=====

Dr. TAMIM YOUNOS FEATURED THIS AT OUR ANNUAL MEETING IN SAN ANTONIO TEXAS

As we proceed deeper into the third decade of the 21st century, it's high time to look back at our progress and see what adjustments might be made. What problems do we want and need to address this century? What do we hope to accomplish? To move forward, first we need to look back and remind ourselves why we are here and how we got to this place. Our thinking and values have evolved over time—decades and sometimes generations. The 18th century Industrial Revolution resulted in the emergence of high- population urban centers and an agricultural sector that demanded more water energy. As a result, uncontrolled volumes of contaminated domestic, industrial and agricultural waste were discharged into the environment, which caused significant water, air, and soil pollution. The environment values of the 18th century were dictated by 18th century knowledge, which did not foresee the unintended consequences to human health and ecosystem degradation that became more acute around the middle of the 20th century. Advances in science and technology have led our environment values to evolve.

The 20th- century Environmental Revolution

America's environmental revolution was triggered in the 1960's. Notably, in 1962, Rachel Carson's book *Silent Spring* brought significant public awareness about DDT and other pesticides impact on human health and the environment. Public awareness and activism led enacting environment laws and regulations to protect the waters of the United States. The U.S. Environmental Protection Agency was created in 1970; the Clean Water Act of 1972 expanded the 1948 Federal Water Pollution Control Act to

Regulate the discharge of pollutants into the surface waters and establish water quality standards; the Safe Drinking Water Act of 1974 was established to ensure the safety of public drinking water supplies. Before the 1960's, the focus of water resources development and delivery. In the 1970s the focus shifted to nonpoint source pollution—that is, stormwater runoff from agriculture and urban areas.

Inherited and Emerging Water Problems

Despite the 20th century environmental revolution we are still facing serious challenges inherited from past centuries. These include but not limited to ①) water scarcity due to the convergence of the human population in urban areas; (2) competition for water used in food in urban areas; (3) the need for energy to support urban water infrastructure; (4) aging water infrastructure; (5) the consequences of changing climate affecting drinking water quality and availability; (6) emerging contaminants (e.g., pharmaceuticals, hormones, PFAS) in natural water systems and drinking water; and (7) drinking water cost and equitable water utility management.

Water problems identified in the 20th century continue to impact the environment to a great extent. And new problems emerged during the first two decades of the 21st century. In the aftermath of 9/11, cybersecurity in water infrastructures began to dominate water research, education, and management. During the second decade of the 21st century, climate change arose as a prominent issue, and its impact was felt on water resource, infrastructure management, and policy, where it continues to resonate today. Most recently, the unexpected crisis caused by COVID-19 has exposed a diverse range of preexisting water infrastructure problems, particularly poor drinking water quality in low-income and underserved communities.

Conclusion: The Need for a Paradigm Shift

From a water management perspective, we still utilize and mostly depend on traditional water management technologies, policies, and college curricula that were developed in the 20th century. Furthermore, in recent decades, the sustainable management of water resources has shifted to be more influenced by the interconnectedness of the global economy as well as the global climate variability and human activities.

There is a significant need for a Paradigm shift in water research And education, and thereby in Water regulations, to meet water Related health, environmental,

Understanding the social and human dimension of water management is emerging as the most significant imperative in equitable water management.

And societal goals. Today's critical water management imperatives are: (1) developing cross-disciplinary water education curricula; (2) developing effective strategies for adapting to a changing climate (e.g., flood control, drought management, water supply security); (3) developing decentralized water infrastructure and nature-based solutions for water management such as using/reusing locally available alternative water sources (e.g., rainwater/ stormwater, wastewater, or seawater/brackish water); and (4) better understanding the food, water, and energy nexus in urban environments (i.e., integrating food security and efficient water and energy use in urban agriculture;) and (5) applying advanced technologies such as geospatial analysis machine learning, and artificial intelligence to water resource management and infrastructure.

Finally, our commitment to citizen education is critical to ensuring a better future for planet Earth and for humanity. As Margaret Mead said, "Never doubt that a small group of thoughtful, committed citizens can change the world. Indeed, it is the only thing that ever has."

Doctor Tamim Younos is founder and president of the Green Water-Infrastructure Academy and adjunct professor of water resource at the University of the District of Columbia.



Plumbers' JAC Local 130, UA will be accepting applications online only for admission to the Plumbing Apprenticeship Program starting November 13, 2023 through February 16, 2024 OR the first 2,000 submissions, whichever occurs first.

Application available at: www.apply.jac130.org

For Questions: (312)421-1028

REGISTRATION FEE: \$50.00 NON-REFUNDABLE

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1. MasterCard, Visa, Discover or AMEX (only)

Optional: If you wish to purchase the Test Taking Tip Book for \$20.00 following submission of your application online you will have access to a link to purchase and download a digital copy of the Test Taking Tips from a Third-Party Vendor.



REQUIREMENTS: You must have the following items to successfully submit your online application:

- Completed Application
- Upload a copy of your valid driver's license
- Upload a copy of your Birth Certificate or Valid U.S. Passport
- Upload proof of Completion of High School in **ONE** of these formats:
 - High School Diploma* OR High School Transcripts* that include your graduation date OR
 - GED Certificate
 - Veterans DD214
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- Uploads must be in .pdf format

QUALIFICATIONS:

1. Must read, write and speak the English language
2. Must have a High School Diploma* or GED equivalent
3. Pass an aptitude test
4. Pass a drug screen
5. Pass a physical exam
6. Pass an agility test
7. Applicants must always possess a valid driver's license
8. Must be at least 18 years of age (Applicants who are 17 years of age may apply provided he or she will be 18 years of age prior to being registered by the JAC)
9. *High School Seniors may apply but must submit a letter from their High School stating they are on track to graduate and including transcripts to date.



THERE ARE NO EXCEPTIONS TO THESE REQUIREMENTS AND QUALIFICATIONS BUT THEY ARE SUBJECT TO CHANGE.

PLEDGE OF EQUAL OPPORTUNITY IN APPRENTICESHIP

The Trust Fund for Apprentice and Journeyman Education and Training, Local 130 UA will not discriminate against apprenticeship applicants or apprentices based on race, color, religion, national origin, sex (including pregnancy and gender identity), sexual orientation, genetic information, or because they are an individual with a disability or a person 40 years old or older. The Trust Fund for Apprentice and Journeyman Education and Training, Local 130 UA will take affirmative action to provide equal opportunity in apprenticeship and will operate the apprenticeship program required under Title 29 of the Code of Federal Regulations, part 30.



Some Codes An Illinois Plumber/Plumbing Inspector Has To Know, Among others

United Access Board (ADA)	SUBCHAPTER r: WATER AND SEWAGE PART 910 FIELD SANITATION CODE SECTION 910.40 DRINKING WATER FACILITIES	SCHOOLS (105 ILCS 5/) School Code. (105 ILCS 5/Art. 14 heading) ARTICLE 14. CHILDREN WITH DISABILITIES
DEPARTMENT OF JUSTICE Office of the Attorney General 28 CFR Part 38 [Order No. 2042 - 96] ARCHITECTURAL AND TRANSPORTATION BARRIERS COMPLIANCE BOARD 36 CFR Part 1191 [Docket No. 94-2] RIN 3014-AA17 Americans with Disabilities Act Accessibility Guidelines for Buildings and Facilities; Children's Facilities AGENCIES: Architectural and Transportation Barriers Compliance Board and Department of Justice.	SUBCHAPTER s: MIGRANT LABOR PART 935 MIGRANT LABOR CAMP CODE SECTION 935.65 REQUIRED SANITARY FACILITIES	SUBCHAPTER q: MOBILE HOMES PART 870 MANUFACTURED HOME INSTALLATION CODE
ANSI/AWWA C651-14 (Revision of ANSI/AWWA C651-05)	SUBCHAPTER r: WATER AND SEWAGE PART 925 ILLINOIS WATER WELL PUMP INSTALLATION CODE	HEALTH FACILITIES AND REGULATION (210 ILCS 117/) Abandoned Mobile Home Act
Guidelines for Environmental Infection Control in Health-Care Facilities	SUBCHAPTER r: WATER AND SEWAGE PART 915 WATER WELL AND PUMP INSTALLATION CONTRACTOR'S LICENSE CODE SECTION 915.40 SUPERVISION	SUBCHAPTER q: MOBILE HOMES PART 860 MANUFACTURED HOME COMMUNITY CODE
Emergency Management Strategies: High Volume Patient Decontamination	SUBCHAPTER n: RECREATIONAL FACILITIES PART 800 RECREATIONAL AREA CODE	PUBLIC SAFETY (430 ILCS 115/) Illinois Modular Dwelling and Mobile Structure Safety Act.
Illinois Energy Conservation Code (20 ILCS 3125/15)	SUBCHAPTER n: RECREATIONAL FACILITIES PART 810 YOUTH CAMP CODE	HEALTH FACILITIES AND REGULATION (210 ILCS 115/) Mobile Home Park Act.
Chapter I: Department of Public Health Subchapter m: Food, Drug and Cosmetics Part 750 Food Code	SUBCHAPTER b: HOSPITAL AND AMBULATORY CARE FACILITIES PART 205 AMBULATORY SURGICAL TREATMENT CENTER LICENSING REQUIREMENTS	Regulation of Factory Built Structures in Illinois
SUBCHAPTER r: WATER AND SEWAGE PART 920 WATER WELL CONSTRUCTION CODE SECTION 920.90 CONSTRUCTION MATERIALS AND OTHER REQUIREMENTS	PART 830 STRUCTURAL PEST CONTROL CODE SECTION 830.1100 PROTECTION OF POTABLE WATER SUPPLIES	SUBCHAPTER r: WATER AND SEWAGE PART 900 DRINKING WATER SYSTEMS CODE SECTION 900.20 GENERAL REQUIREMENTS
Food Code ; 2017 Recommendations of the United States Public Health Service Food and Drug Administration	SUBCHAPTER n: RECREATIONAL FACILITIES PART 820 SWIMMING FACILITY CODE	PART 892 LAWN IRRIGATION CONTRACTOR AND LAWN SPRINKLER SYSTEM REGISTRATION CODE SECTION 892.25 PROVIDERS OF LAWN SPRINKLER DESIGN AND INSTALLATION COURSES
SUBCHAPTER q: MOBILE HOMES PART 860 MANUFACTURED HOME COMMUNITY CODE	Part 518 - FREESTANDING EMERGENCY CENTER Code	SUBCHAPTER r: WATER AND SEWAGE PART 895 PUBLIC AREA SANITARY PRACTICE CODE
SUBCHAPTER r: WATER AND SEWAGE PART 925 ILLINOIS WATER WELL PUMP INSTALLATION CODE SECTION 925.40 PUMP INSTALLATION	SUBCHAPTER r: WATER AND SEWAGE PART 905 PRIVATE SEWAGE DISPOSAL CODE SECTION 905.60 SUBSURFACE SEEPAGE SYSTEM CONSTRUCTION REQUIREMENTS	FEMA Design and Construction Guidance for Community Safe Rooms
NUCLEAR SAFETY (420 ILCS 46/) Illinois Radon Awareness Act.	SUBCHAPTER f: EMERGENCY SERVICES AND HIGHWAY SAFETY PART 518 FREESTANDING EMERGENCY CENTER CODE	Environmental Barriers Act and the Illinois Accessibility Code covers:
	HEALTH FACILITIES AND REGULATION (210 ILCS 85/) Hospital Licensing Act.	State of Illinois Food and Sanitation Code
	(410 ILCS 650/) Sanitary Food Preparation Act	Subchapter b: hospitals and ambulatory care facilities Part 250 hospital licensing requirements

United States Environmental Protection Agency
Drinking Water Requirements for States and Public Water Systems
Lead in Drinking Water in Schools and Childcare Facilities

SUBCHAPTER c: LONG-TERM CARE FACILITIES
PART 340 ILLINOIS VETERANS' HOMES CODE

SUBCHAPTER b: ACCESSIBILITY STANDARDS
PART 400 ILLINOIS ACCESSIBILITY CODE
SECTION 400.APPENDIX A ILLINOIS ACCESSIBILITY CODE

Americans with Disabilities Act and Architectural Barriers Act
Accessibility Guidelines

SUBCHAPTER c: LONG-TERM CARE FACILITIES
PART 300 SKILLED NURSING AND INTERMEDIATE CARE FACILITIES CODE

American Water Works Association
ANSI/AWWA C651-14
Disinfecting Water Mains

SUBCHAPTER r: WATER AND SEWAGE
PART 905 PRIVATE SEWAGE DISPOSAL CODE
SECTION 905.60 SUBSURFACE SEEPAGE SYSTEM CONSTRUCTION REQUIREMENTS

(410 ILCS 35/) Equitable Restrooms Act

SUBCHAPTER c: LONG-TERM CARE FACILITIES
PART 295 ASSISTED LIVING AND SHARED HOUSING ESTABLISHMENT CODE

(410 ILCS 655/) Safe Bottled Water Act.

SUBCHAPTER p: HAZARDOUS AND POISONOUS SUBSTANCES
PART 845 LEAD POISONING PREVENTION CODE

SUBCHAPTER r: WATER AND SEWAGE
PART 920 WATER WELL CONSTRUCTION CODE
SECTION 920.100 FINISHING AND TESTING

SUBCHAPTER m: FOOD, DRUGS AND COSMETICS
PART 730 MANUFACTURING, PROCESSING, PACKING OR HOLDING OF FOOD CODE

SUBCHAPTER r: WATER AND SEWAGE
PART 892 LAWN IRRIGATION CONTRACTOR AND LAWN SPRINKLER SYSTEM REGISTRATION CODE
SECTION 892.30 LICENSED PLUMBERS RESPONSIBLE FOR INSTALLATION OF LAWN SPRINKLER SYSTEM

SUBCHAPTER m: FOOD, DRUGS AND COSMETICS
PART 785 MANUFACTURED DAIRY PRODUCTS

SUBCHAPTER r: WATER AND SEWAGE
PART 900 DRINKING WATER SYSTEMS CODE



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We would be happy to print your story in our newsletter, whether it be about your Military, family member attending college, anniversary, accomplishments, projects you are or have worked on, etc. pictures are always welcome.



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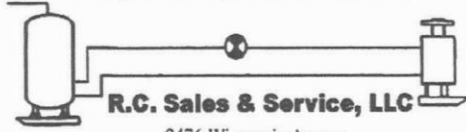
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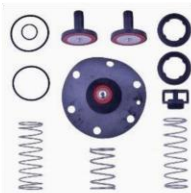
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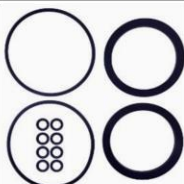


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