

ACHIEVEMENTS OF ISO TC 224, TC 275 AND TC 282

T. D. ELLISON
AND
ROLAND RICHARD

INVOLVES THE ACTIVITIES OF:

ISO INTERNATIONAL ORGANIZATION FOR STANDARDIZATION

SCC STANDARDS COUNCIL OF CANADA

CWWA CANADIAN WATER AND WASTEWATER ASSOCIATION

OBJECTIVES OF STANDARDIZATION:

PROVIDE ORGANIZATIONS WITH GUIDELINES TO CONSISTENTLY ACHIEVE UNIVERSALLY RECOGNIZED STANDARDS

TO BE EFFECTIVE:

ORGANIZATIONS MUST BE AWARE OF THE STANDARDS AND IMPLEMENT THEM

PARTICIPATION:

SCC ESTABLISHES A MIRROR COMMITTEE OF CANADIANS PARTICIPATING IN THE ISO TCs

CWWA SHOULD ENCOURAGE STAFF OF MEMBERS TO PARTICIPATE.

ACHIEVEMENTS – TC 224:

[HTTPS://WWW.ISO.ORG/COMMITTEE/299764.HTML](https://www.iso.org/committee/299764.html)

**HAS 36 PARTICIPATING MEMBERS, 26 OBSERVING MEMBERS
HAS 10 ACTIVE WGs, CANADA IS ACTIVE IN ALL OF THEM**

SCOPE:

STANDARDIZATION OF THE MANAGEMENT CONCEPTS FOR SERVICE ACTIVITIES AND PROCESSES RELATING TO DRINKING WATER SUPPLY, WASTEWATER AND STORMWATER SYSTEMS.

THIS STRUCTURE INCLUDES ACTIVITIES NECESSARY TO FULFIL THE OBJECTIVES OF WATER SUPPLY, WASTEWATER AND STORMWATER SYSTEMS. WATER SUPPLY FOR PURPOSES OTHER THAN DRINKING WATER CAN BE INCLUDED IN THIS MANAGEMENT CONCEPT STRUCTURE.

ACHIEVEMENTS – TC 224:

PUBLISHED: 24 STANDARDS

NOTABLE PUBLISHED STANDARDS:

VOCABULARY

PERFORMANCE INDICATORS

ASSET AND CRISIS MANAGEMENT

WATER LOSS MANAGEMENT

ONSITE WASTEWATER SYSTEMS

STORM WATER MANAGEMENT

EFFECTIVE CORPORATE GOVERNANCE

WATER EFFICIENCY MANAGEMENT (A CERTIFICATION STANDARD)

DEVELOPING: 19 STANDARDS

ASSESSMENT OF SERVICES

MANAGING CLIMATE CHANGE IMPACTS

FLUSHABLE PRODUCTS

HARDENING WATER SYSTEMS

PROVISION OF ALTERNATIVE WATER SERVICES IN EMERGENCIES

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ACHIEVEMENTS – TC 275:

[HTTPS://WWW.ISO.ORG/COMMITTEE/4493530.HTML](https://www.iso.org/committee/4493530.html)

**HAS 20 PARTICIPATING MEMBERS, 20 OBSERVING MEMBERS
HAS 8 ACTIVE WGs, CANADA IS ACTIVE IN 3, AND FOLLOWS 5.**

SCOPE:

STANDARDIZATION OF THE METHODS FOR CHARACTERIZING, CATEGORIZING, PREPARING, TREATING, RECYCLING AND MANAGING SLUDGE AND PRODUCTS FROM URBAN WASTEWATER COLLECTION SYSTEMS, NIGHT SOIL, STORM WATER HANDLING, WATER SUPPLY TREATMENT PLANTS, WASTEWATER TREATMENT PLANTS FOR URBAN AND SIMILAR INDUSTRIAL WATERS. IT INCLUDES ALL SLUDGE THAT MAY HAVE SIMILAR ENVIRONMENTAL AND/OR HEALTH IMPACTS.

ACHIEVEMENTS – TC 275:

PUBLISHED: 4 STANDARDS:

LAND APPLICATION OF BIOSOLIDS

REQUIREMENTS OF ANAEROBIC DIGESTION FACILITIES

GUIDANCE ON THERMAL TREATMENT

RECOVERY OF INORGANIC SUBSTANCES AND NUTRIENT RECOVERY

DEVELOPING: 7 STANDARDS

TOXICOLOGICAL EVALUATION

DETERMINATION OF CALORIFIC VALUES

LABORATORY PRACTICES

VALIDATION OF PHYSICAL PROPERTIES

THICKENING AND DEWATERING

VOCABULARY

RISK COMMUNICATION MANAGEMENT

ACHIEVEMENTS – TC 282:

[HTTPS://WWW.ISO.ORG/COMMITTEE/4856734.HTML](https://www.iso.org/committee/4856734.html)

HAS 23 PARTICIPATING MEMBERS, 28 OBSERVING MEMBERS
HAS 4 SUBCOMMITTEES, CANADA IS ACTIVE IN ALL OF THEM.

SCOPE:

STANDARDIZATION OF WATER REUSE OF ANY KIND AND FOR ANY PURPOSE. IT COVERS BOTH CENTRALIZED AND DECENTRALIZED OR ON-SITE **WATER RECLAMATION**, AND DIRECT AND INDIRECT **REUSE APPLICATIONS**, TAKING INTO CONSIDERATION THE POTENTIAL FOR UNINTENTIONAL EXPOSURE OR INGESTION. IT INCLUDES TECHNICAL, ECONOMIC, ENVIRONMENTAL AND SOCIETAL ASPECTS OF WATER REUSE. WATER REUSE COMPRISES A SEQUENCE OF THE STAGES AND OPERATIONS INVOLVED IN COLLECTION, CONVEYANCE, PROCESSING, STORAGE, DISTRIBUTION, CONSUMPTION, DRAINAGE AND OTHER HANDLING OF WASTEWATER, AND TREATED EFFLUENT, INCLUDING WATER THAT IS REUSED IN REPEATED, CASCADED AND RECYCLED WAYS.

ACHIEVEMENTS – TC 282:

HAS 4 SUBCOMMITTEES:

1. TREATED WASTEWATER FOR IRRIGATION
2. WATER REUSE IN URBAN AREAS
3. RISK AND PERFORMANCE EVALUATION
4. INDUSTRIAL WATER REUSE

PUBLISHED: 34 STANDARDS

- TREATED WASTEWATER FOR IRRIGATION (8)
- WATER REUSE IN URBAN AREAS (8)
- RISK AND PERFORMANCE EVALUATION (10)
- INDUSTRIAL WATER REUSE (8)

DEVELOPING: 12 STANDARDS

- TREATED WASTEWATER FOR IRRIGATION (2)
- WATER REUSE IN URBAN AREAS (4)
- RISK AND PERFORMANCE EVALUATION (3)
- INDUSTRIAL WATER REUSE (3)

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PROBLEMS

1. MOST PROVINCES DRAFT THEIR OWN STANDARDS WITHOUT ANY NECESSARY CONSISTENCY ACROSS THE COUNTRY.
2. FEW, IF ANY, MUNICIPALITIES BUY THE ISO STANDARDS, EVEN AS REFERENCE POINTS FOR LOCAL PRACTICE.
3. THE 3 SCC MIRROR COMMITTEES ARE NOT WELL POPULATED, AND MOST MEMBERS ARE NOT ACTIVE: I.E. REVIEWING AND COMMENTING ON DRAFT STANDARDS.

SOLUTIONS

1. CWWA MEMBERS SHOULD BUY THE ISO STANDARDS AND EITHER IMPLEMENT THEM OR USE THEM FOR GUIDANCE FOR LOCAL PRACTICES.

THE STANDARDS CAN BE BOUGHT THROUGH SCC:

[HTTPS://WWW.SCC.CA/EN/STANDARDS/FIND-OR-BUY-STANDARDS/BUY-STANDARDS](https://www.scc.ca/en/standards/find-or-buy-standards/buy-standards)

2. CWWA MEMBERS SHOULD LOBBY THEIR PROVINCE TO BE AWARE OF AND PROVIDE REFERENCE TO THE ISO STANDARDS WHERE APPROPRIATE.

3. CWWA MEMBERS SHOULD BECOME MEMBERS OF THE SCC MIRROR COMMITTEES AND BE ACTIVE IN THE WORK: REVIEWING, COMMENTING AND VOTING ON PROPOSED ISO STANDARDS. [HTTPS://WWW.SCC.CA/EN/STANDARDS/PARTICIPATE/COMMITTEES/ALL](https://www.scc.ca/en/standards/participate/committees/all)

OUR MOST ACTIVE MEMBERS ARE: **ME, TONY VAN ROSSUM, BARRY ORR, ROLAND RICHARD AND MARYAM MOFIDPOOR.**