

Overview of AwwaRF Strategic Research Plan

米国水道協会研究財団の戦略的研究計画

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米国水道協会研究財団 ジェームス・マンワリング



The 7th Japanese – United States Conference on Drinking Water Quality & Wastewater Control

July 12-15, 2004 - Oahu, Hawaii

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OVERVIEW OF AwwaRF STRATEGIC RESEARCH PLAN

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About AwwaRF



Mission:

Advancing the science of water to improve the quality of life.

- Centralized research program
- 950 Utility subscribers
- 50 consultants
- 16 manufacturers



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AwwaRF Research

- Total Research effort-- \$340
- 850 research projects
- 500 published reports

2003 Research Value
\$30 Million



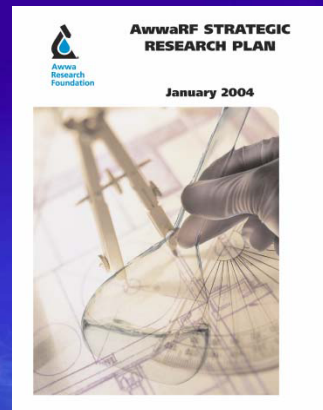
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Subscription Program

- Voluntary, self-assessed
- 2003 rate:
 - \$2.00 per million gallons (10¢ per household per year)
- International Subscription
 - 40% discount
 - \$1.2/MG



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SRP Structure



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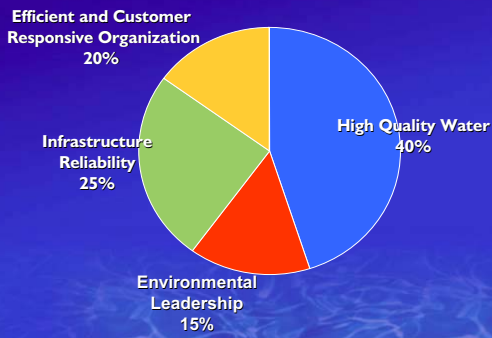
STRATEGIC GOALS

- Efficient and Customer Responsive Organization
- Environmental Leadership
- High Quality Water
- Infrastructure Reliability



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Goal Allocation



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Efficient and Customer Responsive Organization

- Business planning and management
- Customer Relations
- Organizational Development

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Environmental Leadership

- Residuals
- Watershed Management
- Water Sources

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High Quality Water

- Public Health Studies
- Water Quality Analysis and Monitoring
- Organics, Inorganics, Microbes
- Treatment, Control and Minimization Strategies
- Compliance Strategies
- Post Treatment Water Quality

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Infrastructure Reliability

- Design
- Operations and Management
- Integrity and Reliability Assessment
- Repair, Rehabilitation, Replacement

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III – MAJOR TRENDS

- Business Trends
- Societal Trends
- Water Utility Trends

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MAJOR TRENDS

- Infrastructure replacement need will result in higher water rates
- More environmental regulations
- Market pressure for restructuring, consolidation, privatization of public water systems
- Customer expectations will grow

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MAJOR TRENDS

- Workplace transformed, more independent and entrepreneurial, more challenging to find and retain staff
- Technology to permeate the workplace with large volumes of data generated
- Drinking water integrated into holistic water resource management

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IV – HIGH-PRIORITY ISSUES AND NEEDS



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Efficient & Customer Responsive Organization

- Continuous Improvement
- Customer Service and Communication
- Human Resources Management
- Information Management
- Strategic Planning



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Environmental Leadership

- Desalination Science and Technology
- Environmental Impacts of Facilities
- Groundwater Protection & Management
- Reservoir Operation & Maintenance
- New Water Sources
- Recreational Impacts
- Total Maximum Daily Load Regulations



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High Quality Water

- Bromate Control Strategies
- Haloacetic Acid Control Strategies
- Contaminant Candidate List
- Total Coliform Rule



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High Quality Water

- Methods for Endocrine Disrupting Compounds
- Methods for Pathogens
- Ultraviolet Disinfection
- Desalination and Reuse Water Quality Issues



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Infrastructure Reliability

- Distribution System Water Quality & Hydraulic Modeling
- Corrosion (Internal and External)
- Distribution System Materials
- Repair, Rehabilitation, and Replacement
- Cross-Connections and Backflow Prevention



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ありがとうございます

THANK YOU



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