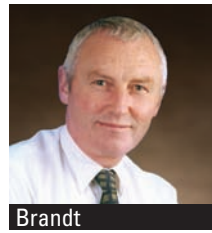
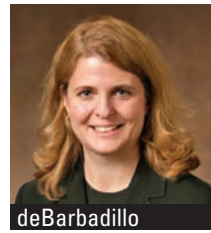




Barnard



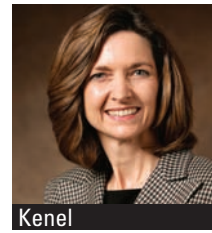
Brandt



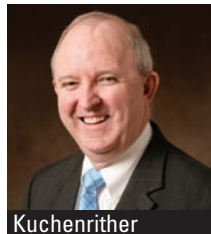
deBarbadillo



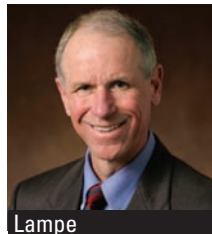
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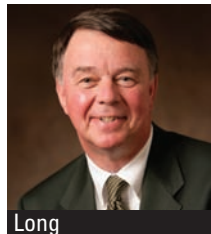
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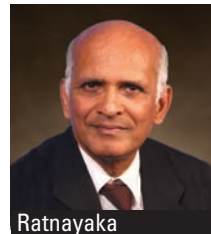
Kuchenrither



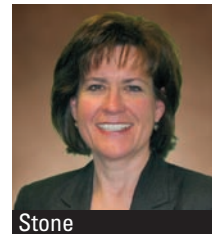
Lampe



Long



Ratnayaka



Stone

B&V WATER GLOBAL PRACTICE AND TECHNOLOGY LEADERS

Dr. James Barnard is recognized internationally as “the Father of Biological Nutrient Removal (BNR).” A celebrated career includes groundbreaking work that forms the basis for all BNR process configurations in use today. He has been awarded the Koch-Imhoff Award, Camp Medal, and Clarke Prize and is an Honorary Member of the AAEE. Contact him at BarnardJL@bv.com.

Malcolm Brandt is a technical specialist with 40 years’ global experience in water supply and distribution projects, including water resources, infrastructure planning, water quality and operations, demand management and water loss control. A widely published author, he co-authored the 6th Edition of the standard text *Twort’s Water Supply*. Contact him at BrandtM@bv.com.

Christine deBarbadillo has more than 20 years of experience in wastewater engineering projects, including planning, process engineering, design and operation of pilot facilities, and treatment plant design. She has served as a chapter author for several WEF publications, including *Manual of Practice 29* for

operation of BNR plants; the *Biofilm Reactors* publication; and *Manual of Practice 8*. Contact her at deBarbadilloC@bv.com.

Dr. Terry Johnson has spent 40 years directing municipal and industrial wastewater treatment, including conceptual planning and design. He was instrumental in the introduction and refinement of IFAS technology to N. America. He has contributed to several WEF manuals of practice. He is currently serving on the WERF Research Council. Contact him at JohnsonTL@bv.com.

Pam Kenel specializes in sustainable water planning, including climate change adaptation and water resources management. She is experienced with decision analysis and stakeholder-engagement strategies. Recent papers on sustainable water planning have received awards and inclusion in water industry compendiums. Contact her at KenelPP@bv.com.

Dr. Dick Kuchenrither is a globally recognized expert in the area of residuals management and has been instrumental in helping many cities and utilities

implement and gain public acceptance of beneficial reuse programs. He co-authored a widely used textbook on renewable biosolids management. Contact him at KuchenritherR@bv.com.

Dr. Les Lampe is a widely known researcher, author and educator. He has managed major innovative water supply projects for regions in the United States and Australia. He has authored more than 90 technical papers and presentations and has chaired many technical and professional water supply groups. He has been Principal Investigator on projects comparing international practices for water management. Contact him at LampeLK@bv.com.

Bruce Long is a recognized expert in membrane filtration and emerging water treatment technologies. He has extensive experience with developing progressive design parameters for water treatment plants, with particular emphasis on pilot plants and testing programs, data-driven up-scaling for full-

scale treatment facilities and process optimization and compliance. Contact him at LongBW@bv.com.

Don Ratnayaka has extensive experience that covers today’s technology spectrum. He has overseen water treatment process components for facilities across the globe, including some of the largest in the world. Ratnayaka co-authored the 5th Edition (June 2000) of the standard text *Twort’s Water Supply*, and authored many other noted water industry publications. Contact him at RatnayakaD@bv.com.

Lori Stone brings more than 20 years of practical biosolids management to Black & Veatch clients. She has worked with more than 100 utilities in the National Biosolids Partnership to help them overcome challenges associated with their biosolids programs. She is an active leader in many professional associations and has authored and presented numerous papers about best biosolids management practices. Contact her at StoneLA@bv.com.

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INTEGRATED GLOBAL WORKFORCE

Seamless access to the best water knowledge.

BLACK & VEATCH INTEGRATED GLOBAL WORKFORCE

DISTINCTIVELY QUALIFIED



BLACK & VEATCH'S GLOBAL WATER BUSINESS PUTS INTO PRACTICE THE COMPANY VISION OF LEADING THE INDUSTRY IN VALUE CREATION.

The need for drinking water and sanitation is still fundamental, but delivering these services is becoming increasingly complex and costly. As the water industry confronts the 21st century, it faces tremendous political, operational and growth challenges. Those challenges are intensified by deterioration of aging infrastructure.

“Our clients continue to be challenged to do more with less and, in some situations, even defy Mother Nature itself,” said Dan McCarthy, President and CEO of Black & Veatch’s global water business.

“To be successful in this environment, our clients need seamless access to the best available knowledge and expertise worldwide,” he said. “Access to such a broad network of expertise cannot be achieved through traditional organizational structures and cultures.”

A GLOBALLY INTEGRATED WORKFORCE

Because of the dispersed and localized nature of the water business, timely access to the appropriate global expertise and experience historically has been very expensive and, in some cases, even prohibitive.

“We have effectively addressed this issue by transforming our regional and local teams into a ‘globally integrated workforce,’” McCarthy said. “We have redesigned our organizational structure to foster and accelerate our transformation into a knowledge culture that truly defines us in this marketplace.”

“We have created communities of practice which link our regional practice leaders, technology leaders and subject matter experts from around the world,” said McCarthy.

Headed by Global Practice and Technology Leaders, these communities of practice are unique, as they do not focus on just the “capture” of explicit knowledge. They are also designed to institutionalize and harness the tacit knowledge of B&V Water experts and make it available on demand to any Black & Veatch project manager anywhere in the world. “Interactions within such communities invariably result in a knowledge spiral that creates new knowledge and triggers innovation,” McCarthy said.

“Our ability to capture and harness the collective wisdom of our experts from all across the globe and apply it ‘at will’ to any project anywhere in the world separates Black & Veatch from its competitors,” McCarthy explained. “We have achieved this unprecedented access to knowledge through a disciplined cultural transformation that cannot be duplicated by other engineering, consulting and construction companies.”

CONSULTATIONS OUTSIDE CONVENTIONAL CONTRACT ARRANGEMENTS

“We have taken to heart and put into practice our corporate vision of leading the industry in value creation,” McCarthy said. “In an unprecedented move to achieve this vision, we’re making our Global Practice and Technology Leaders available to our Global Strategic Clients for consultation outside conventional contractual arrangements. This means that these clients can engage and interact with these world-class experts without the need of a contract or fee obligation for general consultation, problem diagnostics, solution formulation, and strategy validation and fine tuning.”

Such uninhibited access to a world of expertise is a value proposition that makes B&V Water very attractive to its growing list of Global Strategic Clients.

ABOUT BLACK & VEATCH

Black & Veatch is a leading global engineering, consulting and construction company specializing in infrastructure development in energy, water, telecommunications, management consulting, federal and environmental markets. Founded in 1915, Black & Veatch develops tailored infrastructure solutions that meet clients’ needs and provide sustainable benefits. Solutions are provided from the broad line of service expertise available within Black & Veatch, including conceptual and preliminary engineering services, engineering design, procurement, construction, financial management, asset management, program management, construction management, environmental, security design and consulting, management consulting and infrastructure planning. With \$2.7 billion in revenue, the employee-owned company has more than 100 offices worldwide and has completed projects in more than 100 countries on six continents.



Centers of excellence shift over time to address market technology/services needs.