

## Project Number

WRF-04-015

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## Joint Water Reuse and Desalination Task Force Desalination Workshops

### Principal Investigator:

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### Sponsored by:

Awwa Research Foundation  
Sandia National Laboratories  
Bureau of Reclamation  
WaterReuse Foundation

**Water Innovation Symposium:** Desalination & Water Purification Technologies Roadmap

### Objective:

To assist the Joint Water Reuse & Desalination Task Force (JWR&DTF) to develop a national research agenda for desalination. The JWR&DTF is taking the lead in conducting the research on the high priority research needs identified during the workshops. The Task Force is also taking the lead in stimulating interest in the research needs by other potential funding organizations.

### Summary and Conclusions

The diverse group of scientists, engineers, water managers, and government officials gathered by the JWR&DTF for the Water Innovation Symposium included some of the foremost experts in desalination and water purification. During the Symposium's three workshops held October 17-21, 2005, the invited technical experts developed 43 research project descriptions with cost estimates for the recommended research totaling approximately \$25 million. The Symposium was organized to identify specific research projects that will help the Task Force's initial efforts to implement the *Desalination and Water Purification Technologies Roadmap*, which was developed by Sandia National Laboratories and the U.S. Bureau of Reclamation to hasten the rate of technological advance and cost reduction of desalination technologies. The JWR&DTF convened workshops in the areas of membrane technologies, alternative technologies, and concentrate management with the goal of developing a long-term, national research agenda for desalination and water purification technologies. During each of the workshops, the invited technical experts were asked to recommend research priorities, write research project descriptions, and to estimate costs for each project. The output of each of the workshops was as follows:

- *Membrane Technologies* – The invited technical experts wrote 16 project descriptions with funding recommendations of approximately \$11 million.
- *Alternative Technologies* – The invited technical experts wrote 11 project descriptions with funding recommendations of approximately \$6 million.
- *Concentrate Management* – The invited technical experts wrote 16 project descriptions with funding recommendations of approximately \$8 million.