

Note: Names with \* after expressed interest in leading this theme. Names in no specific order.

<p><b>Oil &amp; gas industry water energy sustainability – Ryan, Linden</b></p> <ol style="list-style-type: none"> <li>1. Joe Ryan* - CEAE</li> <li>2. Karl Linden* - CEAE</li> <li>3. John Pellegrino - ME</li> <li>4. John Zhai - CEAE</li> <li>5. Marina E. Vance ME</li> <li>6. Julie Korak - CEAE</li> <li>7. Robert Davis - CBE</li> <li>8. Mark Hernandez – CEAE</li> <li>9. Jana Milford - ME</li> <li>10. Yifu Ding - ME</li> <li>11. Yida Zhang - CEAE</li> <li>12. Hanh-Phuc Le - ECEE</li> <li>13. Al Weimer - CBE</li> <li>14. Ben Livneh - CEAE</li> <li>15. Kyri Baker - CEAE</li> <li>16. Al Gasiewski - ECEE</li> <li>17. Mike Walker - EVEN</li> <li>18. Qin (Christine) Lv - CS</li> <li>19. Joseph Kasprzyk CEAE</li> <li>20. Anthony Straub - CEAE</li> </ol>	<p><b>Water energy system analysis - Kasprzyk, Gasiewski</b></p> <ol style="list-style-type: none"> <li>1. Joseph Kasprzyk* - CEAE</li> <li>2. Al Gasiewski* - ECEE</li> <li>3. Ben Livneh- CEAE</li> <li>4. Kyri Baker - CEAE</li> <li>5. Mike Walker - EVEN</li> <li>6. Jana Milford - ME</li> <li>7. Evan Thomas - CEAE</li> <li>8. JoAnn Silverstein - CEAE</li> <li>9. Edith Zagona - CADSWES (CEAE)</li> <li>10. John Zhai - CEAE</li> <li>11. Marina E. Vance - ME</li> <li>12. Robert Davis - CBE</li> <li>13. Yifu Ding - ME</li> <li>14. Hanh-Phuc Le - ECEE</li> <li>15. Qin (Christine) Lv – CS</li> </ol>	<p><b>Developing small, modular energy-water systems for urban, rural, tribal, national security, and disaster response settings - Gasiewski, Linden</b></p> <ol style="list-style-type: none"> <li>1. Al Gasiewski* - ECEE</li> <li>2. Karl Linden* - CEAE</li> <li>3. John Zhai - CEAE</li> <li>4. Julie Korak - CEAE</li> <li>5. David Bortz - APPM</li> <li>6. John Pellegrino -ME</li> <li>7. Evan Thomas - CEAE</li> <li>8. Hanh-Phuc Le - ECEE</li> <li>9. Mark Hernandez - CEAE</li> <li>10. JoAnn Silverstein – CEAE</li> <li>11. Robert Davis - CBE</li> <li>12. Kyri Baker - CEAE</li> <li>13. Marina E. Vance - ME</li> <li>14. Qin (Christine) Lv – CS</li> <li>15. Anthony Straub - CEAE</li> <li>16. Al Weimer - CBE</li> </ol>
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<p><b>Energy and resource recovery for wastewater - Henze, Hernandez</b></p> <ol style="list-style-type: none"> <li>1. Mark Hernandez*- CEAE</li> <li>2. Gregor Henze* - CEAE</li> <li>3. JoAnn Silverstein - CEAE</li> <li>4. John Zhai - CEAE</li> <li>5. Robert Davis - CBE</li> <li>6. Julie Korak - CEAE</li> <li>7. David Bortz - APPM</li> <li>8. Mike Walker - EVEN</li> <li>9. Al Gasiewski - ECEE</li> <li>10. Yifu Ding - ME</li> <li>11. John Pellegrino - ME</li> <li>12. Yida Zhang - CEAE</li> <li>13. Sehee Lee - ME</li> </ol>	<p><b>Indoor Agriculture - Pellegrino</b></p> <ol style="list-style-type: none"> <li>1. John Pellegrino* - ME</li> <li>2. Al Gasiewski - ECEE</li> <li>3. John Zhai - CEAE</li> <li>4. Mark Hernandez - CEAE</li> <li>5. Yifu Ding - ME</li> <li>6. Jana Milford - ME</li> <li>7. Robert Davis - CBE</li> <li>8. Qin (Christine) Lv - CS</li> <li>9. Ben Livneh - CEAE</li> <li>10. Gregor Henze - CEAE</li> <li>11. Marina E. Vance - ME</li> </ol>	<p><b>Urban sustainability (waste heat and water reuse – Henze</b></p> <ol style="list-style-type: none"> <li>1. Gregor Henze* - CEAE</li> <li>2. John Zhai - CEAE</li> <li>3. Julie Korak - CEAE</li> <li>4. Jana Milford - ME</li> <li>5. Mark Hernandez - CEAE</li> <li>6. Marina E. Vance - ME</li> <li>7. Al Gasiewski - ECEE</li> <li>8. JoAnn Silverstein – CEAE</li> <li>9. Karl Linden - CEAE</li> <li>10. Robert Davis - CBE</li> <li>11. Qin (Christine) Lv - CS</li> <li>12. Yifu Ding – ME</li> <li>13. Anthony Straub - CEAE</li> </ol>
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<p><b>Achieving near-zero water impact for new thermoelectric power plants, and significantly lower freshwater use intensity within the existing fleet - Pellegrino</b></p> <ol style="list-style-type: none"> <li>1. John Pellegrino* - ME</li> <li>2. Julie Korak - CEAE</li> <li>3. Al Weimer - CBE</li> <li>4. Mike Walker - EVEN</li> <li>5. Joseph Kasprzyk - CEAE</li> <li>6. Al Gasiewski - ECEE</li> <li>7. John Zhai - CEAE</li> <li>8. Yifu Ding - Mechanical Engineering</li> <li>9. Marina E. Vance - ME</li> <li>10. Kyri Baker - CEAE</li> </ol>	<p><b>NASA life support systems – Thomas, Pellegrino, Linden</b></p> <ol style="list-style-type: none"> <li>1. Evan Thomas* - CEAE</li> <li>2. John Pellegrino* - ME</li> <li>3. Karl Linden* - CEAE</li> <li>4. John Zhai – CEAE</li> <li>5. Marina E. Vance - ME</li> <li>6. Hanh-Phuc Le - ECEE</li> <li>7. Al Weimer - CBE</li> <li>8. Julie Korak - CEAE</li> <li>9. Robert Davis - CBE</li> <li>10. Ben Livneh - CEAE</li> <li>11. Gregor Henze - CEAE</li> </ol>	<p><b>Wind farm/ energy generation optimization – Baker</b></p> <ol style="list-style-type: none"> <li>1. Kyri Baker* - CEAE</li> <li>2. Hanh-Phuc Le - ECEE</li> <li>3. Al Gasiewski - ECEE</li> <li>4. Lucy Pao - ECEE</li> <li>5. John Zhai - CEAE</li> <li>6. Mike Walker - EVEN</li> <li>7. Qin (Christine) Lv - CS</li> <li>8. Joseph Kasprzyk - CEAE</li> <li>9. Rafael M. Frongillo - CS</li> </ol>
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<p><b>Solar thermal processes – Weimer</b></p> <ol style="list-style-type: none"> <li>1. Al Weimer* - CBE</li> <li>2. John Zhai - CEAE</li> <li>3. Marina E. Vance - ME</li> <li>4. Hanh-Phuc Le - ECEE</li> <li>5. John Pellegrino – ME</li> <li>6. Al Gasiewski - ECEE</li> <li>7. Julie Korak – CEAE</li> <li>8. Karl Linden - CEAE</li> <li>9. Sehee Lee - Mechanical</li> <li>10. Mike Walker – EVEN</li> <li>11. Anthony Straub - CEAE</li> </ol>	<p><b>Desalination technologies that deliver cost-competitive clean water - Gasiewski</b></p> <ol style="list-style-type: none"> <li>1. Al Gasiewski* - ECEE</li> <li>2. Julie Korak - CEAE</li> <li>3. John Pellegrino - ME</li> <li>4. Evan Thomas - CEAE</li> <li>5. Yifu Ding - ME</li> <li>6. Sehee Lee - Mechanical</li> <li>7. Robert Davis – CBE</li> <li>8. Anthony Straub - CEAE</li> </ol>	<p><b>Additional topics of interest suggested by faculty that were not in the survey:</b></p> <ul style="list-style-type: none"> <li>• Distributed monitoring of water resources - <u>Thomas</u></li> <li>• Water use optimization in precision agriculture- <u>Gasiewski</u></li> <li>• Data analytics in general; Sensing- <u>Lv</u></li> <li>• Embedded energy (GHG) analysis of water infrastructure- <u>Silverstein</u></li> </ul>
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