**2022 Pool and Spa Conference Agenda**

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| **Introductions and****Orientation**9:00AM – 9:10AM1:00PM – 1:10PM | **10 minutes** |
|  | **Pool Water Chemistry**Speaker: Dave DeLong | **Other topics** (Equipment, safety, O&M, illnesses)Speaker: Jun Naotsuka | **Q&A Time** | **Break** |
| ***1st Segment***AM Conference9:10AM – 10:20AMPM Conference1:10PM – 2:20PM | **30 Minutes** | **20 minutes** | **10 minutes** | **10 minutes** |
| pH* What is it?
	+ Acid/base/pH scale
* Why is it important?
* How is it measured?
	+ pH scale
* Upper and lower limits
* How is it controlled?
* Chemicals used
 | More about pH* Disinfectant’s effects on pH
* Adjusting pH (dosing)
* pH chemical safety

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| ***2nd Segment***AM Conference10:20AM – 11:25AMPM Conference2:20PM – 3:25PM | **25 minutes** | **25 minutes** | **10 minutes** | **5 minutes** |
| Disinfection* Chlorination
	+ Types of Cl disinfectants
	+ Available Cl %
	+ HOCl vs OCl-
	+ Free Cl vs Combined chlorine
	+ Superchlorination (shocking)
* Bromination
	+ HOBr vs OBr-
	+ Free Br vs Combined Br
* Upper and lower limits

Cyanuric acid* Where it comes from
* What it’s for
* Negative impact of it
 | More about disinfection* RWIs and control of pathogens with disinfectants
* Disinfectant feeders
* Types
* Adjusting feed rate
* Safety
* How to control CYA
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| ***3rd Segment*** | **20 minutes** | **30 minutes** | **10 minutes** | **0 minutes** |
| AM Conference11:25AM – 12:25PMPM Conference3:25PM – 4:25PM | Alkalinity* What is it?
* Why is it important?
* Ideal range

Calcium hardness * What is it?
* Why is it important?
* Ideal range
 | Water Balance* Langelier Saturation Index
	+ What is it?
	+ How is it calculated?
	+ When is it used?
* Scaling/corrosion issue
* Water clarity issue
* How to adjust water balance
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| **Adjourn**12:25AM – 12:35PM4:25PM – 4:35PM | **10 minutes** |