

Changes to the Student Design Competition

January 27, 2020

Presented by the WEF Students & Young Professionals Committee



Agenda

- Introduction to the WEF[®] Student Design Competition
 - SYPC and Subcommittee structure / leadership
 - Competition history and structure
- Changes for the 2020 Competition
 - Accommodating rapid growth
 - How these affect you
 - Important dates
- Staying connected
 - Benefits to students and your MA
 - How to start a team



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SDC Overview





WEF[®] SYPC Leadership



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Nashita Naureen SYPC Vice-Chair Location: Phoenix, Arizona, USA Arizona Water Environment Association Email: <u>NaureenN@bv.com</u>



Vanessa Borkowski SYPC Chair Location: Hartford, Connecticut, USA New England Water Environment Association Email: Vanessa.Borkowski@stantec.com



Megan Livak WEF SYPC Manager Location: Alexandria, Virginia, USA Email: MLivak@wef.org

Meet some other committee members at: http://wef.org/membership/committees2/committees-m-z/students-and-young-professionals-com





WEF[®] SDC Leadership



Bernadette Drouhard SDC Co-Chair Location: Atlanta, Georgia, USA Georgia Association of Water Professionals Email: DrouhardB@bv.com



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WEF[®] SYPC Highlight

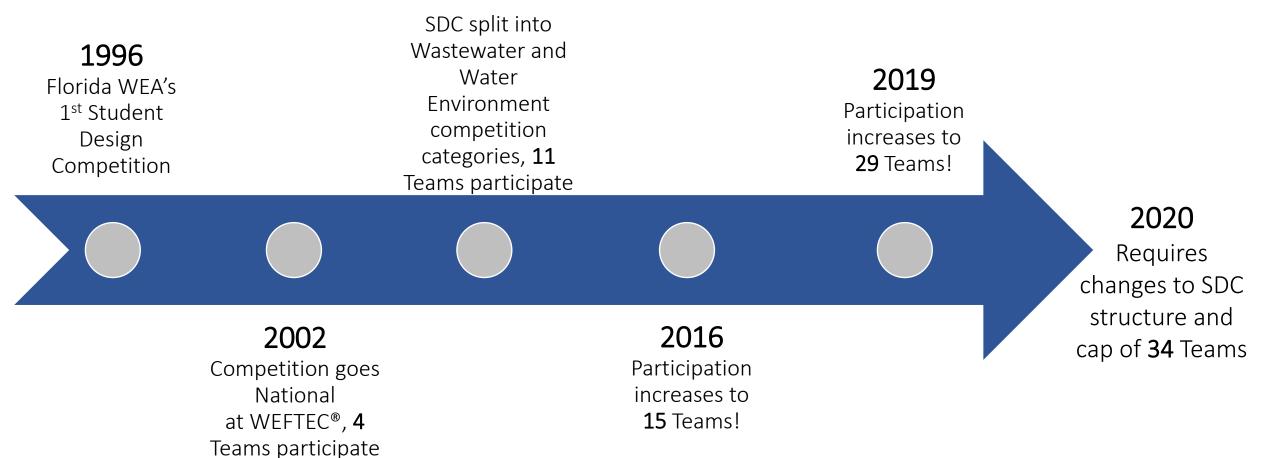


Ann Sager SDC Webinar Champion

Location: Fairfax, Virginia, USA Virginia Water Environment Association Email: <u>asager@hazenandsawyer.com</u>



History of the Competition





What are the goals of the WEF[®] SDC?

To promote **"real world" design experience for students** interested in pursuing an education and/or career in water/wastewater engineering and sciences.

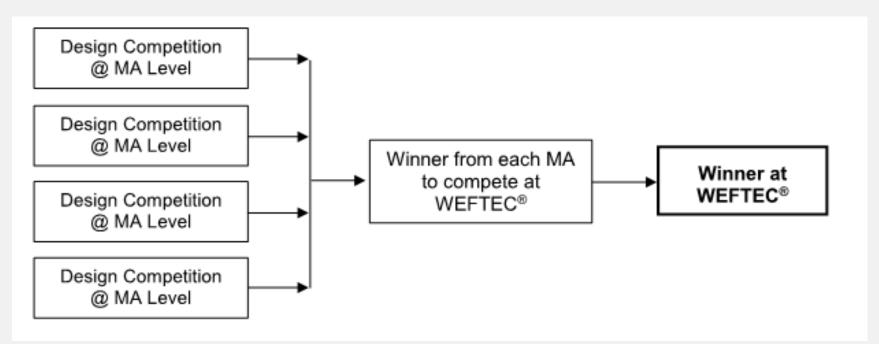
What is the WEF[®] SDC?

This competition **tasks individuals or teams of student members** to demonstrate the ability to **evaluate alternatives, develop a comprehensive design, and present a solution** that meets the requirements of a socially relevant problem statement.



Who competes?

 WEF[®] SDC brings together various member association-level competitions where the student groups, winners of their MA's competition, compete at WEFTEC[®]





Intended Content of the Design Competition

Problems related to protection of water resources and public health



Ĩ	Sewer and pump station design
¢ ¢	WWTP expansions/retrofits
羔	Biological treatment
	Reuse
	Constructed wetlands
Y	Sustainability efforts
	Stormwater management

If you have a *question about the* suitability of your problem statement, please reach out to the Subcommittee! We are happy to review problem statements and provide recommendations for tailoring them to the national competition



11 Traditional drinking water treatment and distribution projects are <u>not</u> typically accepted

Design Competition

• Two competitions are held at WEFTEC [®]:

Wastewater

Water Environment



Both competitions will follow the same guidelines and scoring system



Wastewater Competition

Intended to include traditional wastewater collection and treatment design projects

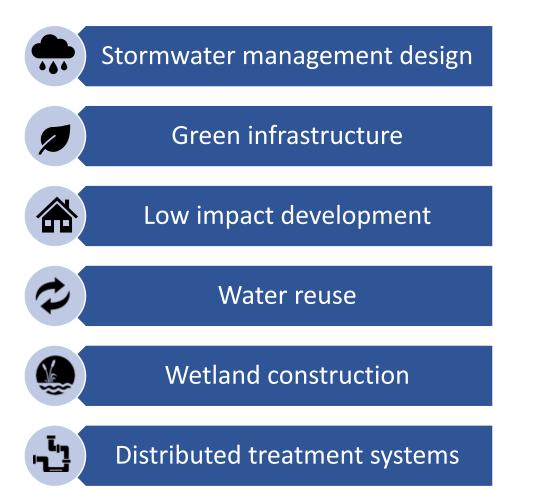
	Hydraulic capacity design
Ŀ	Collection systems
0	Additions to existing WRRF processes
	Biosolids handling
羔	Biological nutrient removal
J↑)	WRRF process optimization





Water Environment Competition

Intended to include contemporary engineering topics







Competition Components

Oral Presentation

Written Report

- 20-minute presentation
- 10-minute Q & A period

- Preliminary Engineering Report
- 20-page limit

- Both subject to questioning during the Q&A period
- Questioning is limited to the judging panel only

Remains unchanged from previous structure.



Student Team Requirement

1

2

Selected by their Member Association to participate

WEF[®] student member in good standing







Student Webinar

Occurs in the summer preceding the WEFTEC[®] competition

Provides an overview of what to expect at the SDC and WEFTEC[®]

- Only one student from each team is required to attend
- Highly recommend that all students attend
- Duration of the webinar is about 1 hour

Informative session aimed to improve students' WEFTEC[®] experience!



Changes to the SDC in 2020



Abstract Review and New Entry Materials

Abstracts are still required for publishing of the booklet

New requirements for one of two deliverables from teams:

- In-progress Report
- OR
- Executive Summary

Purpose is to allow for better grouping of competing teams

Materials will be reviewed more intensively, in a similar fashion to technical abstracts submitted for WEFTEC[®]

Deliverables will be submitted via email



Limited Number of Participating Teams

Competition will be altered in order to allow the maximum number of teams to attend

- Morning & Afternoon competition blocks
- Teams only *required* to attend their competition block

Presentation and Q&A timing will not change

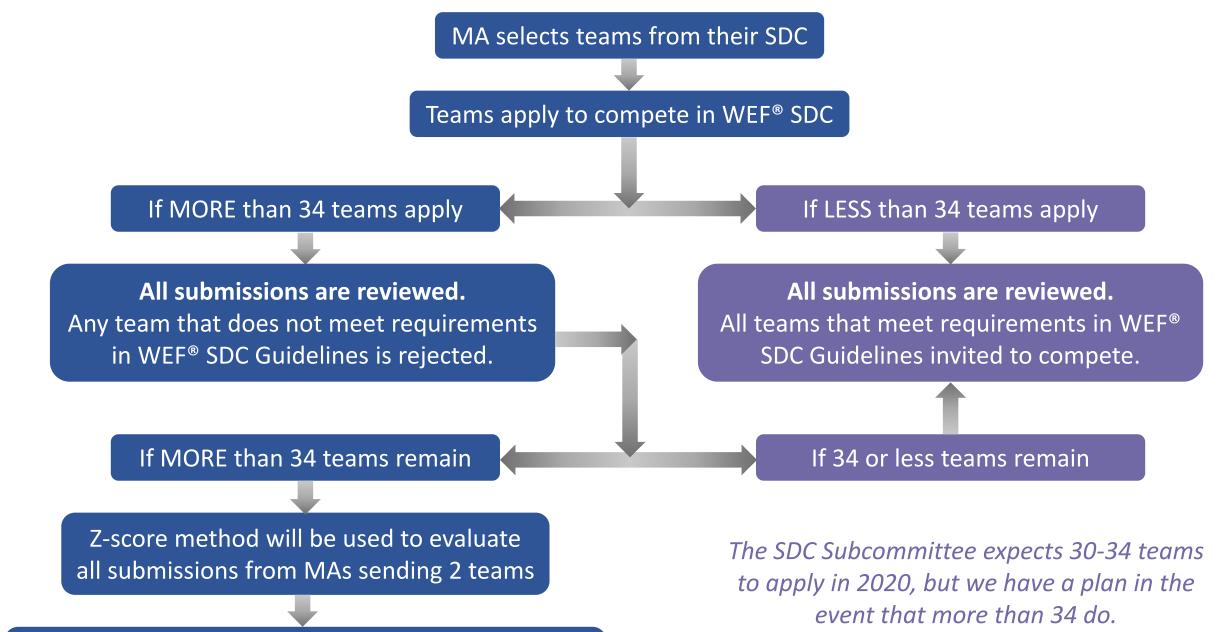
Maximum number of teams is 34—17 per competition without reducing teams timing

Competing MA's will have at least 1 team at WEFTEC[®], provided they meet requirements

• Second teams from the same MA will be confirmed once all competition entrants are evaluated



In 3 years, the competition nearly doubled in size!





Lowest scoring submissions removed (ensuring each ²¹ MA still has 1 team) until only 34 teams remain

How these changes affect you

MA's who have traditionally sent a *single* team to WEFTEC[®]:

• No change.

- Triple check their submission complies with the updated WEF[®] SDC Guidelines
- Inform your team of additional application requirements that are new in 2020

MA's who have traditionally sent *multiple* teams to WEFTEC[®]:

- If more than 34 teams apply, you will hear from the SDC Subcommittee regarding the status of their applications
- If your second team is not invited to compete, they are still welcome to participate in other SYP events at WEFTEC[®]!

MA's who have *not* sent a team to WEFTEC[®] before:

• Welcome!

- Pay careful attention to all requirements in the updated WEF[®] SDC Guidelines
- Contact the SDC Subcommittee with any questions

The SDC Subcommittee expects 30-34 teams to apply in 2020, but we have a plan in the event that more than 34 do.



Important Dates

May 1 – MA's to notify the SDC Subcommittee Chairs of intent to participate in the WEFTEC $^{\mbox{\ensuremath{\$}}}$ SDC

May 29 – Application materials due (including the online entry form, abstract, and executive summary OR in-progress report)

End of June – Student webinar

August 21 – Electronic and hard copies of design report due

September 25 – Electronic copy of the powerpoint presentation due

October 4 – Competition at WEFTEC[®] in New Orleans



The 2020 SDC Guidelines are now LIVE!

- The updated WEF Student Design Competition Guidelines have been uploaded to the SDC website:
 - <u>https://www.wef.org/membership/students-and-young-professionals2/student-design/</u>
- A concise summary of the differences between 2019 and 2020 competitions will be posted later this week





Staying Connected (and what's in it for you!)



SDC Benefits for Member Associations



Great forum to showcase the talent of the next wave of water professionals coming out of your region



Opportunity to present innovative projects that are being conducted in your region



Excellent medium for forging relationships between a YP committee and student chapters within an MA



Bragging rights!





SDC Benefits for Students



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weftec

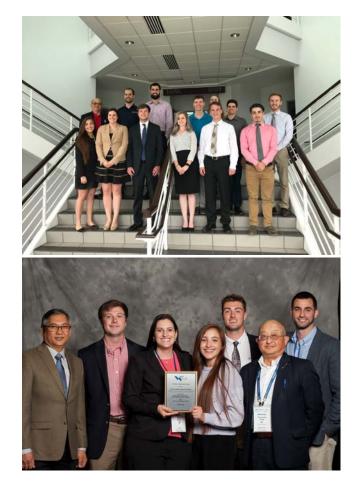
Real world design experience with a professional mentor

Opportunity to demonstrate and improve technical presentation and writing skills prior to employment

Networking with top industry professionals, young professionals, and peers

WEF and MA Involvement/ Participation







SDC Subcommittee Outreach Efforts

- Regional liaisons
 - You will be provided with contact information for an SDC pointperson in your region.
 - Feel free to reach out to that person throughout the year with any questions about the WEF SDC.
 - Important deadlines
 - Specific questions not explicitly addressed in the guidelines
 - Help with submitting any documentation



SDC Subcommittee Outreach Efforts

• Phone survey

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- Regional liaison will be reaching out to you for an *optional* survey
 - 15-20 minute phone call
- **Goal #1:** Opportunity for members of the WEF SDC Subcommittee to get to know champions of the MA SDCs
- **Goal #2:** Compile a comprehensive database of how regional student design competitions are conducted
 - The SDC Subcommittee will then disseminate a guidebook based on this information for running a successful competition at the MA level, in order to aid regional student design competitions around the globe.



Starting Up a Student Design Competition

- Oftentimes the most difficult part of running a SDC is getting it off the ground
- Use the WEF SDC Subcommittee as a resource!
 - We will ensure that there is a point person to answer questions and provide guidance during start-up
 - Resources required to run a competition
 - How to organize an SDC Committee in your MA
 - How to garner interest in your competition (and ultimately, participation!)
- Neighboring MAs are often a great resource, and can potentially host teams from your MA if you cannot hold a competition
 - "Multi-regional" competitions are becoming more popular



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Who is the primar	y contact for the SDC within your MA?
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Do you have a local MA SDC?

If yes, what month does it occur in?

If you do not have a local competition, are you interested in starting one?

Do you typically send more than one school to the WEFTEC[®] SDC?







CONTACT INFORMATION FOR WEF® STUDENT DESIGN COMPETITION:

Bernadette Drouhard SDC Co-Chair Location: Atlanta, Georgia, USA Georgia Association of Water Professionals Email: DrouhardB@bv.com

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Questions?



