



World Industrial Photobioreactor (WIPBR) Challenge



NAA announces the World Industrial Photobioreactor (WIPBR) Challenge 2019.

THE CHALLENGE: To identify the best commercial algae cultivation systems on the market. With many different variations of algae cultivation systems throughout the world, the emerging algae production industry wants to identify the best equipment available in various conditions (indoor and outdoor). Commercially-minded algae producers, researchers and the investment community don't always have the time to see and conduct due diligence on each algae cultivation system operating in a commercial environment.



THE PLAN: Qualified third-party evaluators will be conducting on-site or off-site tests of commercial photobioreactor systems in an unbiased manner to assist potential purchasers. NAA will be creating a list of comparisons. The data collected will be shared with the algae production industry.

NAA invites **ALL** commercial PBR manufacturers, fabricators and water process engineers in the US and throughout the world to participate in the World Industrial Photobioreactor (WIPBR) Challenge. Testing timeframe will be 6-12 months. 1000-2000 gallon commercial PBR demonstration systems will be tested at existing or offsite location by selected evaluators. Contact: barry@nationalalgaeassociation.com



WORLD INDUSTRIAL PHOTOBIOREACTOR CHALLENGE 2019

The Challenge: To identify the best commercial algae cultivation systems on the market. With many different variations of algae cultivation systems throughout the world, the emerging algae production industry needs to identify the best commercial algae cultivation systems in indoor and outdoor commercial production. Commercially-minded algae producers, researchers and the investment community don't always have the time to conduct the extensive due diligence on each algae cultivation system operating in a commercial environment throughout the world. NAA will have the ability to provide some of the necessary due diligence in an unbiased manner.

The Plan: Qualified third-party evaluators will be conducting on- and off-site tests of commercial algae cultivation systems in an unbiased manner to assist potential system purchasers and investors. NAA will be creating a list of comparisons. De-identified data collected will be shared with the algae production industry.

NAA invites all commercial algae cultivation system manufacturers, fabricators and water process engineers in the US and throughout the world to participate in the World Industrial Photobioreactor Challenge. Testing time frames will be 6-12 months.

Purpose:

To help the commercial algae production industry and investment community identify the best commercial algae cultivation systems on the market.

Requirements:

1. All commercial algae cultivation systems must be proven outside the lab and be scalable
2. All commercial algae cultivation systems must have a low CAPEX.
3. Water volume must be at least 1,000 gallons per system.
4. Only polyethylene, polycarbonate, glass tubes, closed-loop tanks and covered raceway ponds will be considered.
5. Botryococcus braunii, chlamydomonas reinhardtii, chlorella, dunaliella, haematococcus pluvialis, nannochloropsis, spirulina, spirulina blue (phycocyanin), scenedesmus strains.

Data to be collected:

1. Algae growth rates
2. Grams per liter dry weight
3. Degradation
4. Ease of cleaning
5. Energy inputs
6. Use of nutrients/CO2
7. Contamination containment

If you are interested, please contact Barry@nationalalgaeassociation.com and to sign the appropriate NDA/confidentiality agreements prior to evaluation.

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