



Where there is air, there is water



Everywhere on Earth, even deserts, the atmosphere contains water. According to Beysens and Milimouk: "The atmosphere contains 12,900 km³ (3,000 cubic miles) of fresh water, composed of 98 percent water vapor and 2 percent condensed water (clouds).

Water from ambient air is safe by default and requires no additional treatment – the challenge remains in the development of methods of extraction that are well matched to the local environmental and economic conditions.

For example, EOLE Prototype tests in Abu Dhabi produced 500 liters of water daily

Water facts

More than 3.4 million people die each year from water, sanitation, and hygiene-related causes.

Lack of access to clean water and sanitation kills children at a rate equivalent to a jumbo jet crashing every four hours.

Diarrhea is the second leading cause of death among children under five in the world. Around 1.5 million

deaths each year - nearly one in five – are caused by diarrhea. Every minute at least one child dies from diarrhea

Women and children spend 200 million hours a day collecting water. This is time children will not spend getting an education. This is time much better spent by women in an economic activity leading to independence and empowerment.

DECEMBER 2014

Key Points



O'Celeste is now formally (and legally) formed as a LLP and is already broadcasting awareness and technologies through its media.

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O'Celeste cofounders met with Madhuri Khambele, Principal of the Cummins College of Engineering for Women, in Pune, India.

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Upcoming



O'Celeste will be going to MIT in January to present their technology challenge to the System Design Management cohort.

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A Guide to Drinkable Water will provide a complete review of the technologies and help define with solution is best for a given location.

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Ex nihilo nihil fit

O'Celeste is up and running as of Nov 15, 2014

O'Celeste was registered with the Indiana Secretary of State on November 15, 2014 as a Limited Liability partnership (LLP), a first step towards non-profit status.

O'Celeste staff includes Hélène Cornils, Rudy Smaling and retired professor Marc Lefort.

We also have several volunteers to help keep us with background research and developing our networks in India and Africa.

More information can be found on our website:
www.oceleste.com

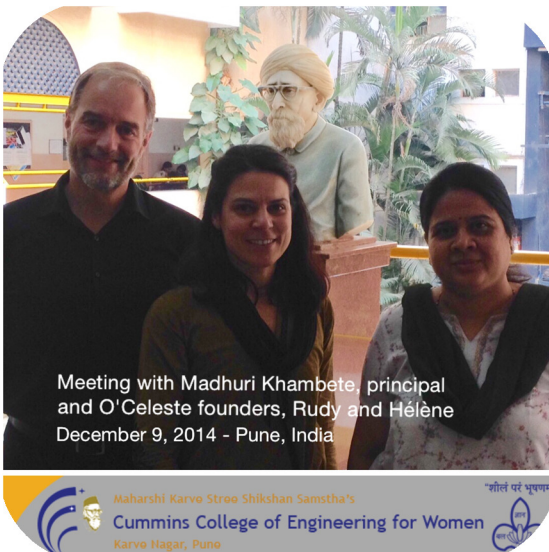
You can also find us on [Facebook](#) (please like us!)

Each week, we broadcast information on water facts, technologies and latest news.

We invite you to join us on Facebook and provide feedback on the few topics and technologies brought forward or simply follow our progress.



Meeting at the Cummins College of Engineering for Women



O'Celeste founders and principal in front of the statue of the college founder - Bharat Ratna Maharishi Ratna Maharishi Dhondo Keshav Karve

On December 9, 2014, we had the pleasure to meet with Madhuri Khambete, principal of the Cummins College of Engineering for Women (CCEW) in Pune – India – where we discussed opportunities for their students to work on a technical challenge for O'Celeste.

If accepted by the institution, teams of 5 students will compete in developing, simulating and testing devices capable of extracting water from the ambient air.

Special attention will be given to factors beyond the technology alone, such as performance, cost, maintenance and ease of operation.

We're looking forward to working with these promising young women and the staff at CCEW.

- Coming up Next -



O'Celeste is also working with the Massachusetts Institute of Technology staff from the System Design Management (SDM) Program to offer a socio-economical and technical challenge focused on water harvesting.

Part of the integrated core of

SDM, students will be engaged in team-based term projects. In these projects, teams will deep dive into the design and management of a particular technologically enabled system and deliver a "prototype", final report and presentation. Each project will cover the stakeholder context, systems architecture, systems engineering and program management aspects of the system and will result in an in depth analysis and final executive board level presentation with deliverables and recommendations.

This is a fast-track project as students will only have 14 weeks to complete but we are very excited at the opportunity to work with the student and staff.

We will be going to Boston and present our technical challenge to the SDM cohort on Jan 12, 2015

Another source of excitement is our upcoming book; A Guide to Drinkable Water, coming out in 2015.

This book will include a complete review of the different processes used to create water from ambient air, an expanded analysis of the technologies brought forward by different parties – including pros and cons of each based on product life cycle criteria and will include a decision tree that will help the user select which solution(s) is best suited for a given location, based on available resources as well as environmental and economic conditions.

As you can imagine, this book is taking time due to the intense research and materials we are gathering, but we certainly are learning a great deal.

A guide to drinkable Water

FROM THE FOUNDERS OF O'CELESTE ®



Coming in 2015