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First visit by UC Davis to UAG

Researchers from University of California at Davis, met with members of the Center for Sustainability and Renewable Energy of UAG.

- Mauricio Alcocer Ruthling
- Benjamin Finkelor
- Michael Siminovitch
- Paul Dodd
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- David Ortíz Mendoza



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THE CONSORTIUM



Tecnológico
de Monterrey

OSRAM

Opto Semiconductors

UCDAVIS

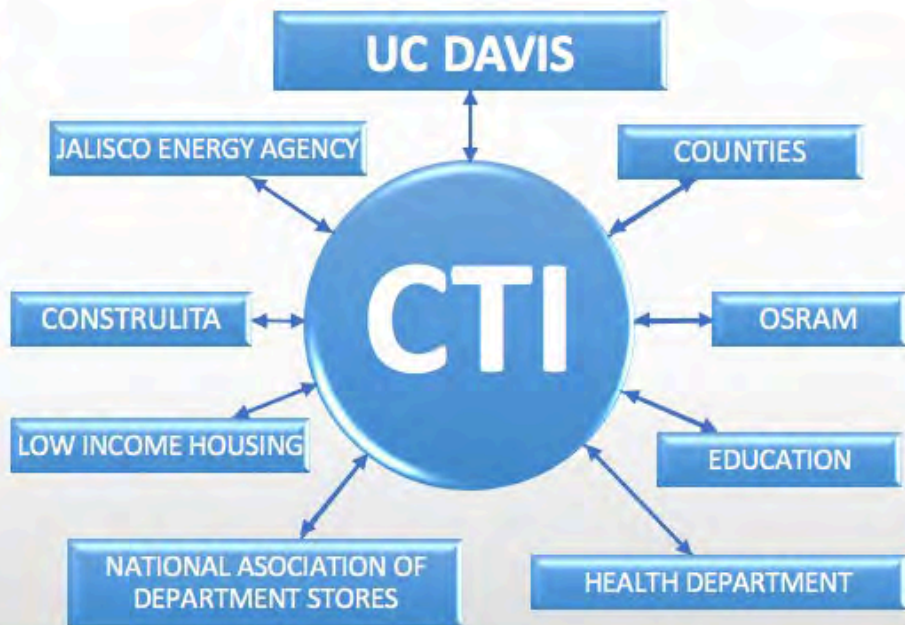
**GRUPO
CONSTRULITA.**



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CTI OBJECTIVES

- Quality
- Energy
- Costs
- Environment
- Comfort
- Security



Timetable

STAGE 1	STAGE 2	STAGE 3	STAGE 4
Create consortium			
Staff Integration			
Training and accreditation of the CTI staff			
Construction of Facilities (testing, demonstration, office and classroom laboratories)			
	CTI Certification		
		Research and product development	
		Demonstration of efficient lighting products and applications	
		Evaluation and certification of technologies and systems	
	Accreditation and training program for specialists in the field		
		Technology transfer	

Proposed Activities

1. Applied research in lighting.
2. Human resource development.
3. Technology transfer.
4. Certification and training of specialized professionals.
5. Develop codes and standards.
6. Create collaborative relationships with the government and industry.



IMPACTS

Environmental

Using energy-efficient lighting systems means less use of fossil fuels, lowering carbon emissions.

Scientific

Publications resulting from multidisciplinary research.

Social

Creating healthier environments in workplaces, schools, healthcare institutions, and homes. Based on optimal lighting and light ambiance in general.

Technological

Creation of prototypes for lighting systems focused on improving efficient energy.

Economic

Improve the financial performance of lighting systems throughout their lifespan through the application and use of lighting management systems.



OFFICE SPACE DEMONSTRATION AND TESTING LABORATORY

- Comfort.
- Productivity.
- Work place health.



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DAYLIGHTING TECHNOLOGY DEMONSTRATION AND TESTING LABORATORY

- Daylight harvesting technology.
- Health.
- Cost reduction.



EXTERIOR LIGHTING DEMONSTRATION AND TESTING LABORATORY

- Smart cities.
- Security.
- Better living conditions.



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LAMP LIFESPAN DEMONSTRATION AND TESTING LABORATORY

- Energy use.
- Costs of use.
- Development of codes and standards.

SCHOOL LIGHTING DEMONSTRATION AND TESTING LABORATORY

- Better learning environment.
- Codes and standards for schools.



LOW-INCOME HOUSING LIGHTING DEMONSTRATION AND TESTING LABORATORY

- Comfort.
- Family economy.



COMMERCIAL SPACE DEMONSTRATION AND TESTING LABORATORY

- Marketing.
- Color technology.
- Light distribution.



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INTERNET OF THINGS (IOT): INTERNET OF LIGHT (IOL).

- Smart grid.
- Lighting controls.
- Information generation.



Infrastructure (1,500 M2)



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ACADEMIC RELATIONSHIPS

- Develop lighting research programs with the participation of students and professors from UAG and UC Davis.
- Faculty and student exchange between UAG and UC Davis.
- Publication of research results.
- Training and certification in lighting systems for UAG faculty.
- Creation of new undergraduate and graduate programs in lighting and energy efficiency.
- Professional internships in lighting system innovation for students and professors.



“Meeting with UAG authorities”



“Chat with students”