

Co-Founder Toxicology  
Program – Univ AZ

Founder Univ AZ  
Superfund Research  
Program

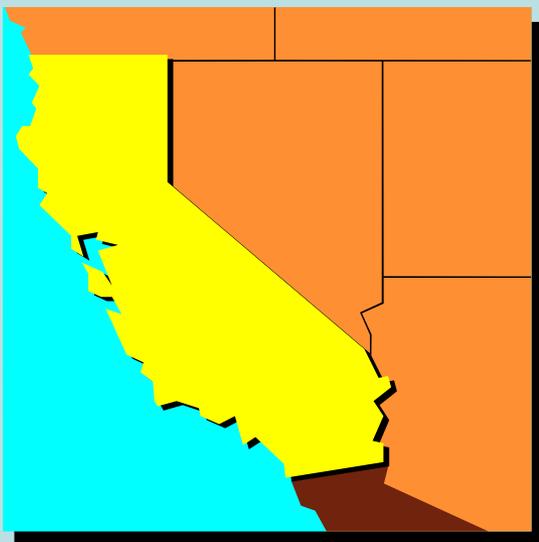
Founder US-Mexico  
Binational Center for  
Environmental Sciences  
and Toxicology



**Dean E. Carter, Ph.D.**

March 25, 1942 --- May 21, 2010

# Dean E. Carter, Ph.D.



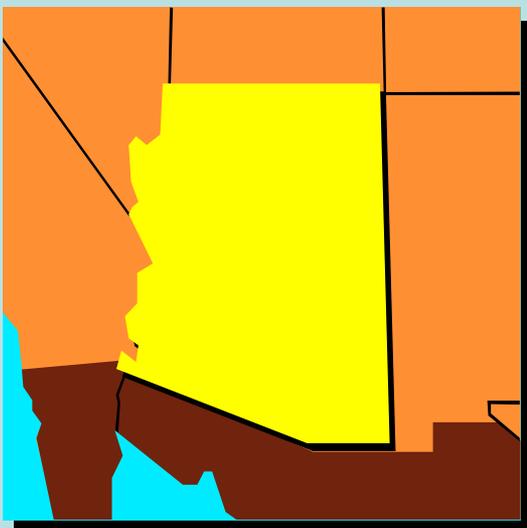
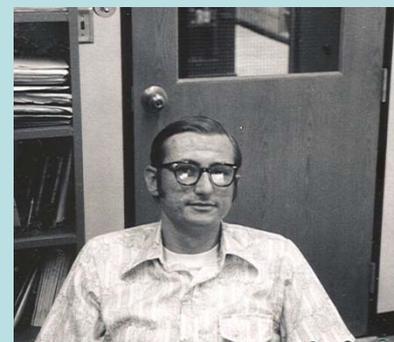
## Education

Fullerton Junior College

U.C. Riverside

BA – Chemistry

San Diego State College



## University of Arizona

Ph.D. - 1968 – Analytical Chemistry

“Planar Metal Chelates”

Quintus Fernando – Advisor

**METALS !**

# Dean E. Carter, Ph.D.

## First Employment

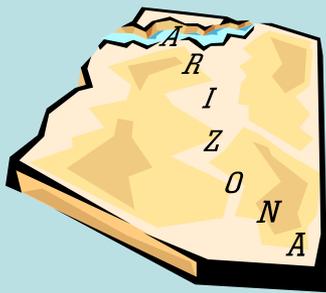
Shell Oil, Emeryville, CA

Instructor, Merritt College – Oakland, CA



## Returned to Arizona - 1972

Fellowship – Pharmacology Dept



# Dean E. Carter, Ph.D.



## Toxicology Program – 1973

Assistant Professor

Associate Director



*(Glenn Sipes)*



## Toxicology Program Blossomed

Associate Director (1973-82)

M.S. Toxicology

Ph.D. – Pharmacology & Toxicology



*(Jay Gandolfi)*

# Dean E. Carter, Ph.D.



Teacher

Analytical Toxicology

Lecture and Lab

“Character Builder” Course (*past students*)

“Right of passage” course

**SOT Education Award - 1992**



# Dean E. Carter, Ph.D.

Study Section

Chair, Tox II



Recognized by his peers for his leadership and scientific acumen

# Dean E. Carter, Ph.D.

## Students and the Laboratory



Prof



Prof



P&G Outreach



Prof



# Dean E. Carter, Ph.D.

## Mentor

Listen and Learn



Lantz, Ostrowsky, Klimecki

Suk, Gandolfi



Gandolfi

# Dean E. Carter, Ph.D.

## College Honors



*(Findley Russell)*

2003  
Findley Russell  
Distinguished Citizen  
Award

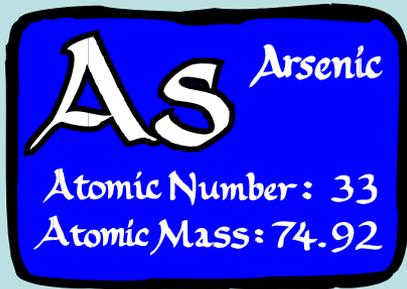
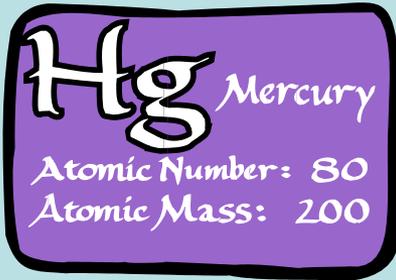


*(COP Dean – Lyle Bootman)*



*(Ron Webb)*

# Dean E. Carter, Ph.D.



## Metals Toxicology Research

Methyl mercury

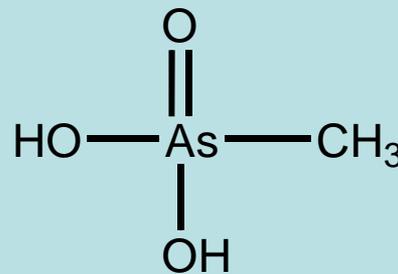
Arsenic

Catalyst for arsenic research

(faculty, students)

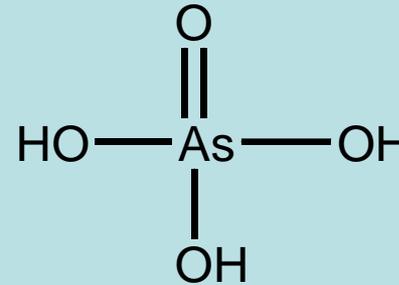


(Vas Aposhian)



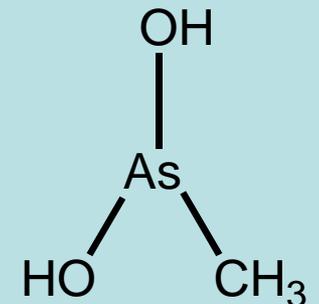
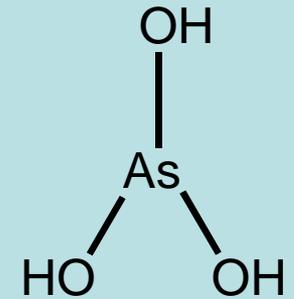
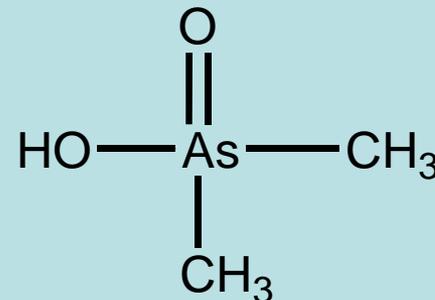
As(III)

Arsine

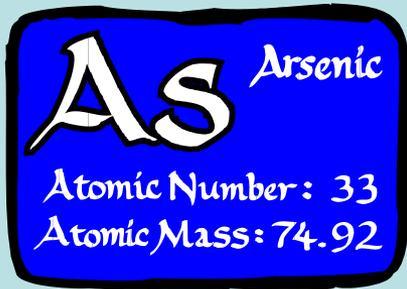
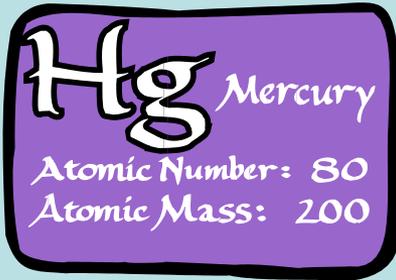


As(V)

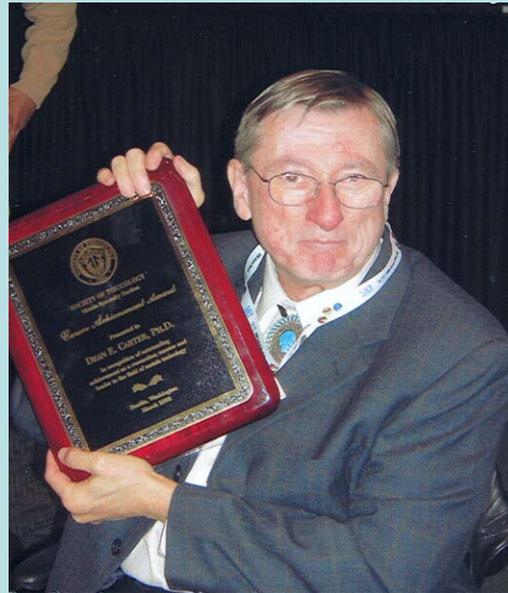
Gallium  
Arsenide



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## Metals Toxicology Research



2008

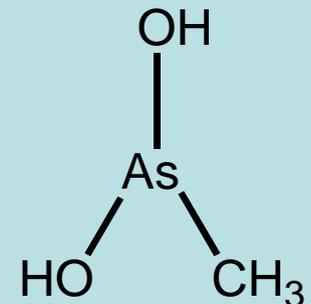
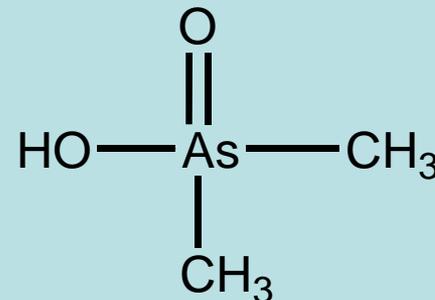
Career Awards – SOT Metals Specialty Section

As(III)

As(V)

Arsine

Gallium  
Arsenide



# Dean E. Carter, Ph.D.



Superfund (*Bill Suk*)

Dean's "calling"

Late 1980's

"Hit the pavement"

1<sup>st</sup> Biomedical (TCE and Arsenic)

Later

Environmental Sciences

Environmental Engineering

"On a Mission"



TCE -  
Degreasing



mining

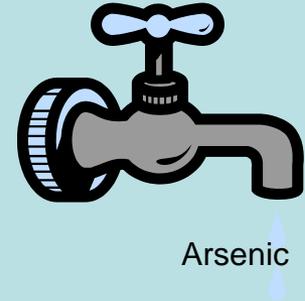


(*Susan Hurt*)

Meetings in Tucson  
(*Smith, Thilly, Fisher  
Eaton, Hammock, Safe*)



SRP Annual Meetings



Arsenic

# Dean E. Carter, Ph.D.



## Superfund

Impact – interdisciplinary

multi-College

multi-campus

Translational studies

field sites

epidemiology

Stakeholders

Model for the University

Groundwork for subsequent NIEHS  
Toxicology Center

Generation of other Programs and Centers

Advisors from State Regulators and  
Industry on Advisory Board



# Dean E. Carter, Ph.D.



## Mexico

A “student” of Mexico

Traveler and Collector

Mexican graduate students



*(Felix Ayala)*



## Superfund Outreach to Mexico

Pollutants – no boundaries

Borders do not matter – Common Problems

Collaboration

Training



*(Mariano Cebrian)*



## U.S. - Mexico Binational Center



# Dean E. Carter, Ph.D.

## US-Mexico Binational Center for Environmental Sciences and Toxicology

### Objectives

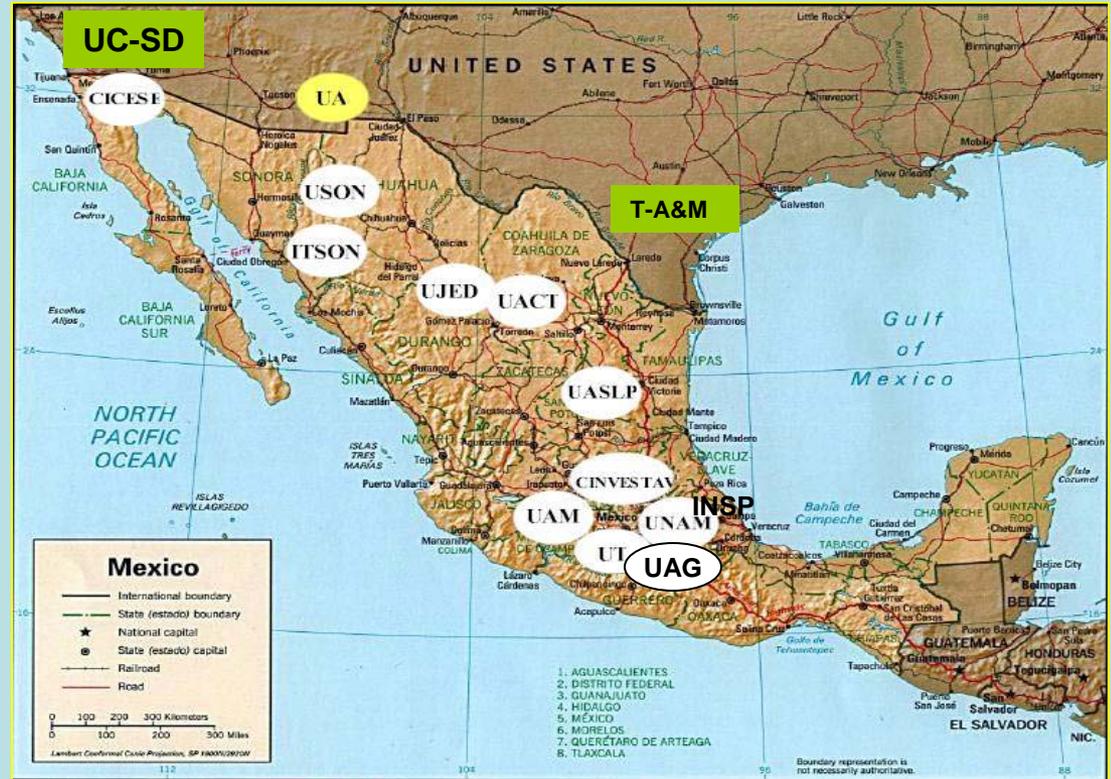
Build the **human capital** to resolve common problems

Community **outreach** and education

**Workshops** - risk assessment and remediation

Binational **collaborative research**

Promote **technology transfer**



## U.S. - Mexico Binational Center



for Environmental Sciences and Toxicology

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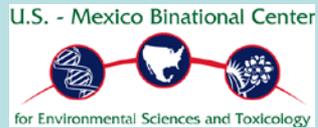
## US-Mexico Binational Center for Environmental Sciences and Toxicology

Build the **human capital** to  
resolve common problems

> 50 students



Technology  
Transfer



# Renaming of the US-Mexico Binational Center



Dean Carter Binational Center for

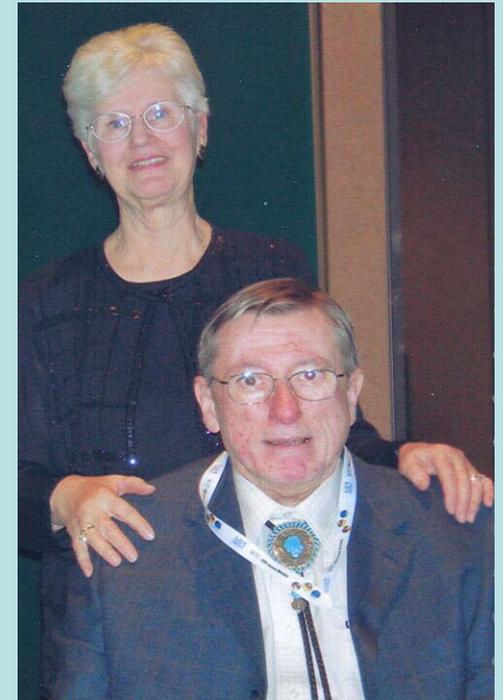


Environmental Health Sciences



# Dean E. Carter, Ph.D.

“Follow in his  
footsteps”



**Colleague**

**Mentor**

**Friend**