

Tuesday 03 Mar 2015

CHEMISTRY AND ART

Eric Bosch

Chemistry Department,

Missouri State University, Springfield, MO



This talk is intended for a general audience and will highlight selected aspects of the interplay between chemistry and art. Topics will range from the chemistry of 30,000 year-old cave paintings in Europe to relatively modern forgeries of classic paintings. Along the way we will discuss a wide variety of subjects. Chemical synthesis and analysis will be interwoven throughout the talk. At the end of the talk you will know the answers to some, or all, of these questions. Where did caveman get his pigment and how can cave paintings be dated? Can you really get red pigments from insects? Which pigment was (and still is) prepared using manure? How did the discovery of new metals affect the impressionist artists? How do you make a “300 hundred year old” painting? How did an unsuccessful chemical reaction make someone a millionaire? Which pigments made by the ancient Egyptians are now being examined for use in nanomaterials? Was Napoleon poisoned by a pigment? How does chemistry help catch forgers?

6:00-6:30 pm Reception, Howell Hall Atrium

6:30-7:15 pm Dinner, Nigh University Center, Heritage Room, Room 326

7:15-8:15 pm Presentation

University of Central Oklahoma,

Edmond, OK

<http://www.uco.edu/>

Menu, Ultimate BBQ Buffet

grilled hickory chicken, sliced BBQ

brisket, slow-cooked pulled pork

ranch style beans, mini corn cob

cornbread with butter

potato salad, green salad, macaroni salad

apple pie or peach cobbler

coffee and tea

Cost

\$18 members

\$5 students

RSVP Deadline

Friday, February 27th, noon

Contact: Carla Supon

phone: 405-974-5732

email: csupon@uco.edu



UCO campus map

Vegetarian option available. Please indicate when you RSVP

Directions Campus map (QR above or see page 2) Paid parking is available in the Visitor Lot, east of the Nigh University Center. The Howell Hall Atrium is on the ground floor between Howell Hall and the Howell Hall Laboratory Annex Building. The Heritage Room is on the third floor of the Nigh University Center at the top of the center stairway.

Eric Bosch Biographical Sketch

Eric Bosch was born in Durban, South Africa and graduated with a BSc Honors degree from the University of Natal in Durban. He worked as a chemist in the pigmented polymer industry for a few years before moving to the Weizmann Institute of Science in Israel where he completed a PhD in organic chemistry. After postdoctoral work with the late Dr. Jay K. Kochi at the University of Houston in Texas he joined the faculty of Missouri State University (MSU) then known as Southwest Missouri State University. Over the past 18 years he has taught all levels of organic chemistry as well as chemistry for non-science majors and the chemistry of art. His research is divided into two major areas: the synthesis of novel ligands for the complexation of transition metal cations, and crystal engineering incorporating weak intermolecular interactions. He has published more than 80 peer reviewed articles including two book chapters and

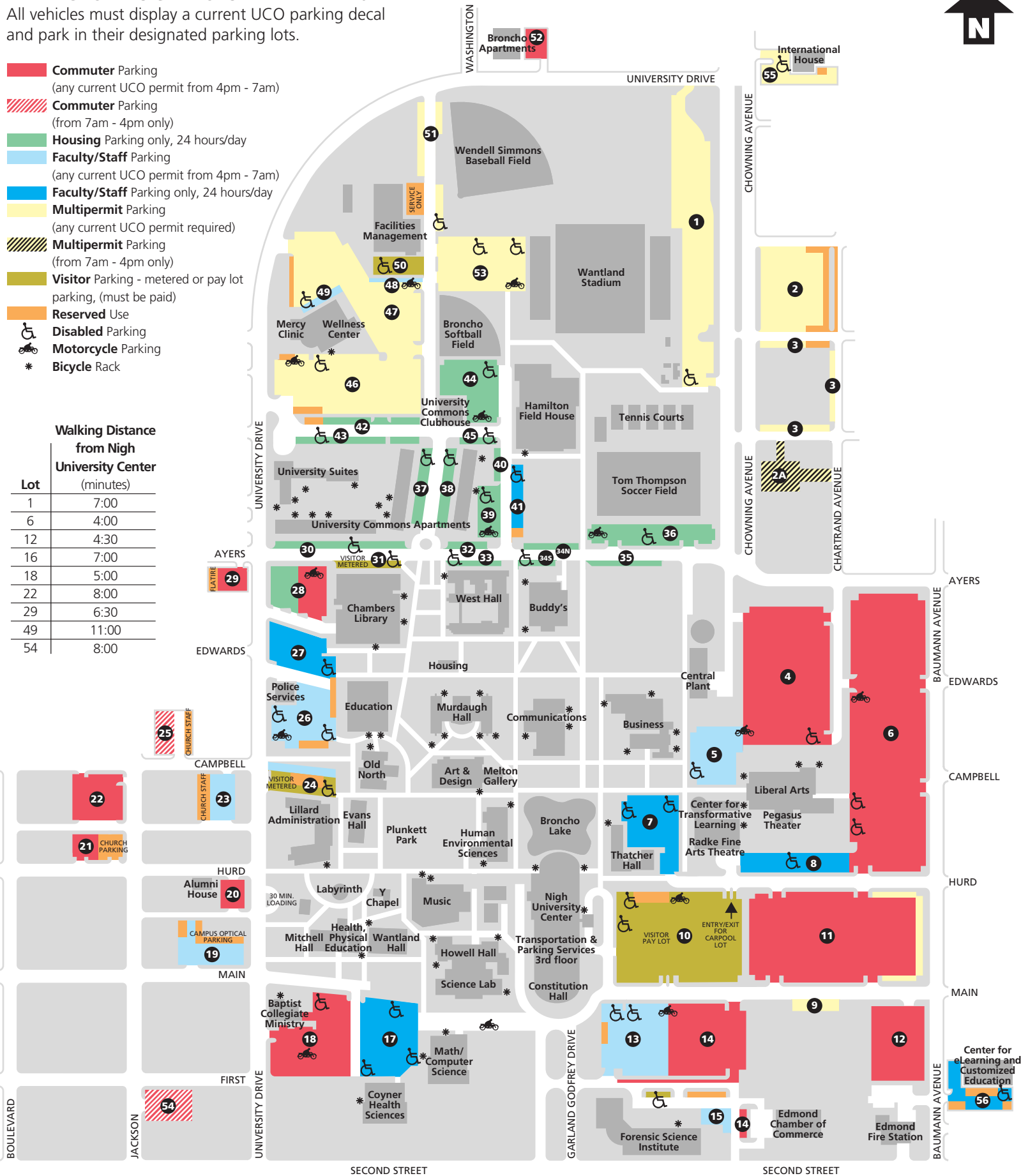
several papers on chemical education. His research was featured on the cover of the *European Journal of Inorganic Chemistry* in 2005 and on the cover of the Royal Society of Chemistry Journal *CrystEngComm* in 2007. He was awarded the MSU Award for Excellence in Teaching in 2004 and the MSU Award for Excellence in Research in 2003 and 2006. In 2014 he was awarded the rank of Distinguished Professor of Chemistry. As a Councilor of the ACS he currently serves as an Associate Member of the Society Committee on Education and the Analytical Reagents Committee. Art has been his lifelong hobby and over the past 10 years he has focused on ceramic work both pottery and sculpture. He has had paintings, pottery and sculpture accepted into juried regional and national exhibitions.

PARKING LOT DESIGNATIONS – VALID FALL 2014

All vehicles must display a current UCO parking decal and park in their designated parking lots.

- Commuter Parking**
(any current UCO permit from 4pm - 7am)
- Commuter Parking**
(from 7am - 4pm only)
- Housing Parking** only, 24 hours/day
- Faculty/Staff Parking**
(any current UCO permit from 4pm - 7am)
- Faculty/Staff Parking** only, 24 hours/day
- Multipermit Parking**
(any current UCO permit required)
- Multipermit Parking**
(from 7am - 4pm only)
- Visitor Parking** - metered or pay lot parking, (must be paid)
- Reserved Use**
- Disabled Parking**
- Motorcycle Parking**
- Bicycle Rack**

Lot	Walking Distance from Nigh University Center (minutes)
1	7:00
6	4:00
12	4:30
16	7:00
18	5:00
22	8:00
29	6:30
49	11:00
54	8:00



THE BEST PLACES TO PARK THROUGHOUT THE DAY!

If you arrive between Look for open spaces
7 – 9am..... In all parking lots
9 – 11am..... North and east side of campus
11am – 3pm..... North of Ayers

