MINUTES OF THE COMMITTEE ON HIGHER EDUCATION.

The joint meeting with the House Committee on Agriculture was called to order by Chairperson Tom Sloan at 3:30 p.m. on March 17, 2003 in Room 519-S of the Capitol.

All members were present except:

Representative Gordon, Excused

Representative Hill, Absent Representative Kuether, Absent

Committee staff present:

Paul West, Legislative Research

Mona Gambone, Committee Secretary

Conferees appearing before the committee: Dr. Ed Martinko, State Biologist and Director, Kansas

Biological Survey

Dr. William Duncan, President, Kansas City Life Sciences

Institute

Others attending:

See attached list

Chairman Sloan introduced Dr. Ed Martinko (Attachment #1). Dr Martinko then responded to questions from members of the Committee.

The members of the Committee on Agriculture then excused themselves to go to their own Committee meeting.

Chairman Sloan then introduced Dr. Bill Duncan (Attachment #2). Dr. Duncan then responded to questions from the members of the Committee.

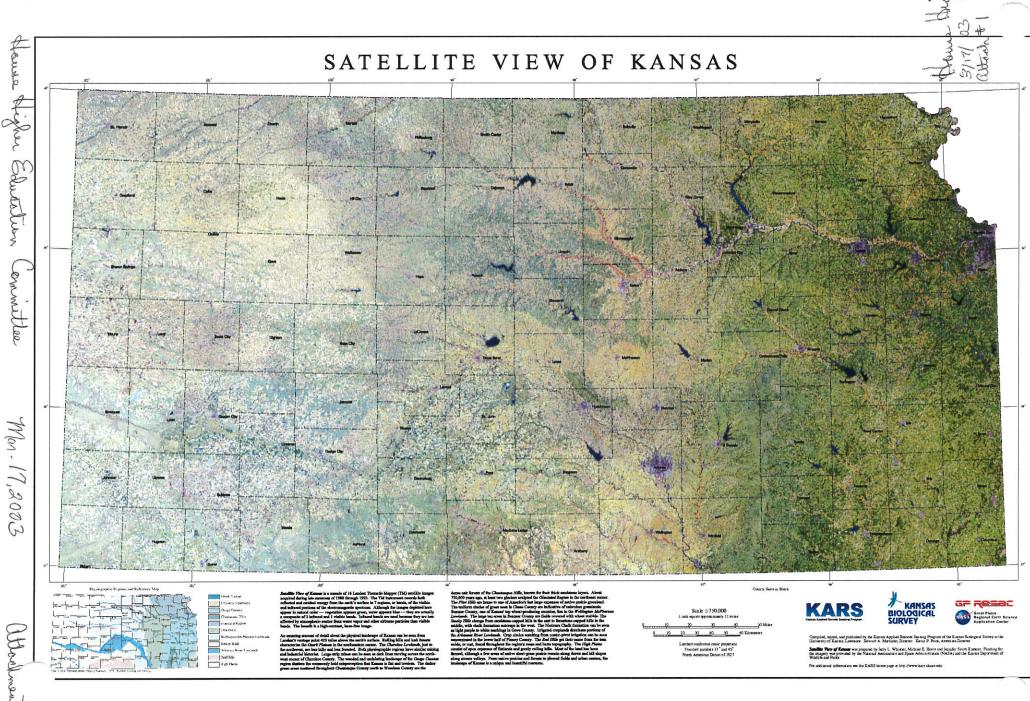
There being no other business, the meeting was adjourned.

The next meeting is scheduled for March 19 in Room 231-N.

HOUSE HIGHER EDUCATION COMMITTEE GUEST LIST

DATE March 17, 2003

NAME	REPRESENTING
Tanet McPherson	Ks Farm Bureau
Fadd Johnson	KLA
Lo Ann Thans H	1PA
Alex Kotoyenta	KSU
En Krug	Self
Danie C Ruch	Highland Comming Calle
Monda Kinney	HOA
Lan Monkens	Self
William P. Annear	Ransas Aty Aren Life Scinces Inithate
Sandy Beaden	Cure Council of Greec
DICK CARTER	KBOR
JOCOOL	Rep Carl Holmes
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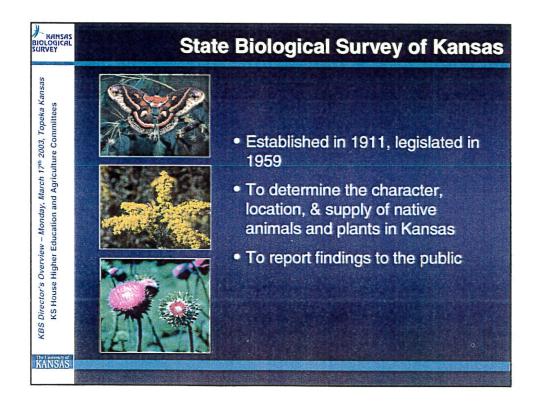


KANSAS BIOLOGICAL SURVEY

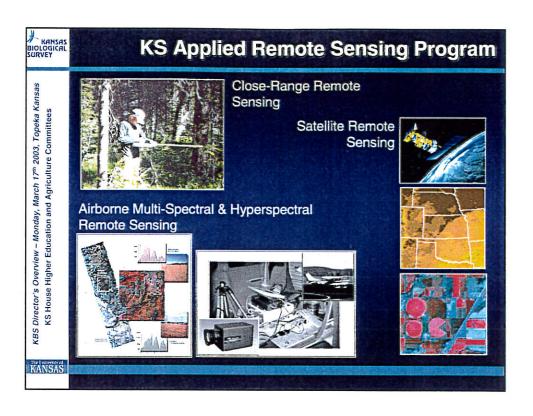


Dr. Edward A. MartinkoDirector, KBS
State Biologist

martinko@ku.edu

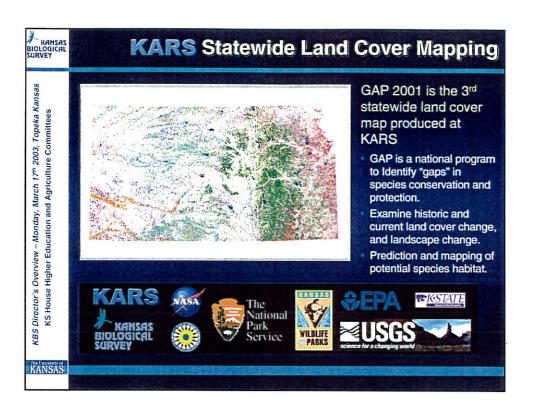


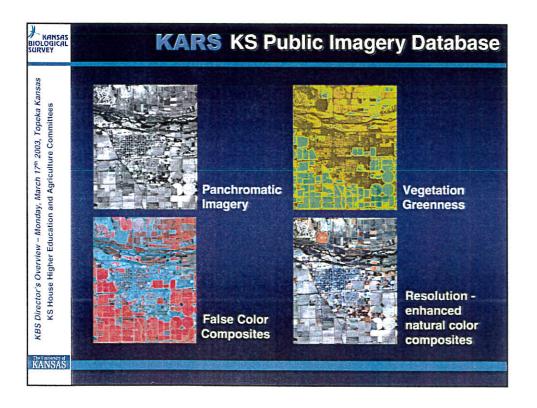
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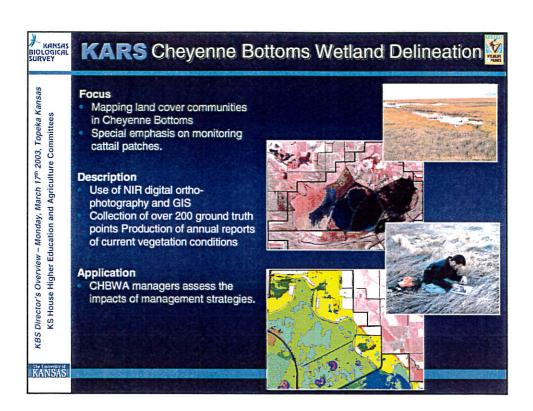


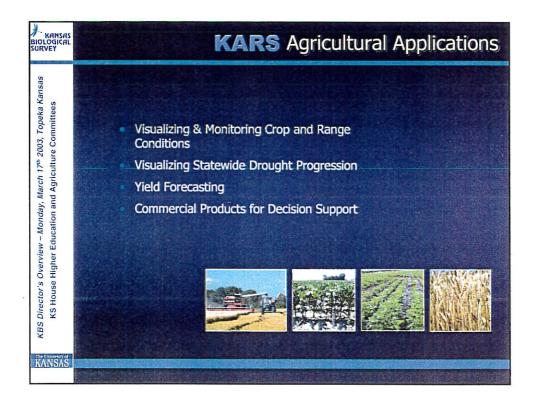


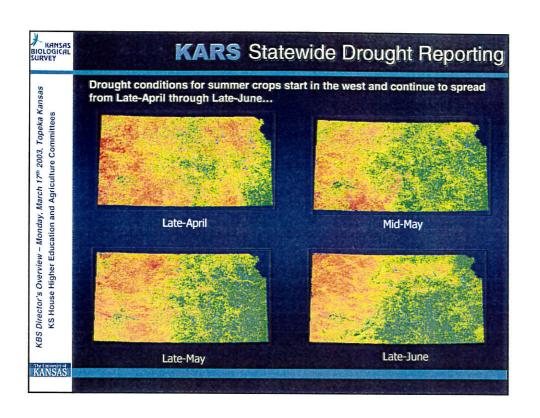
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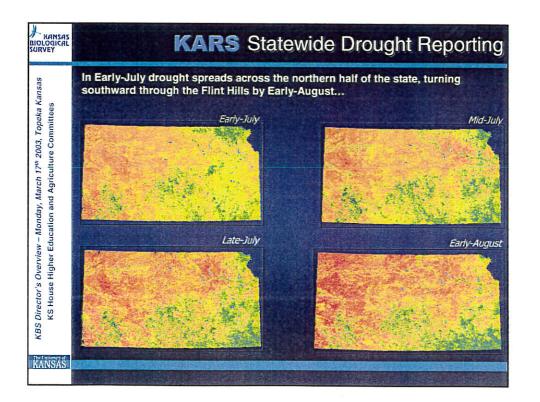


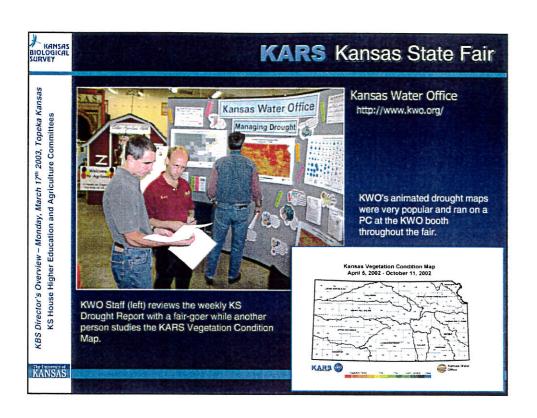


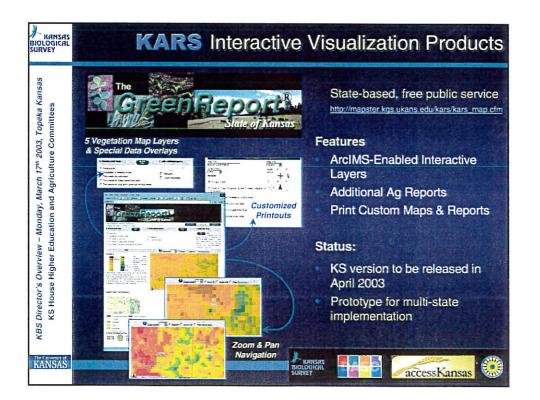




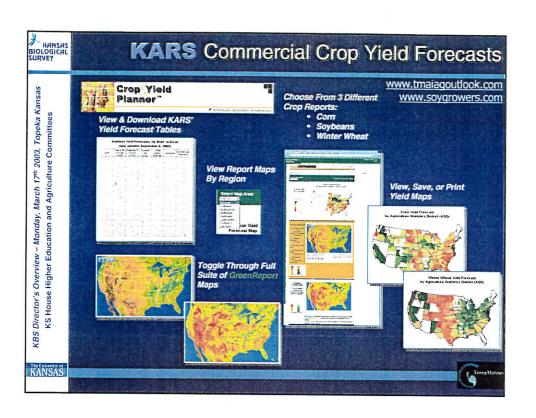


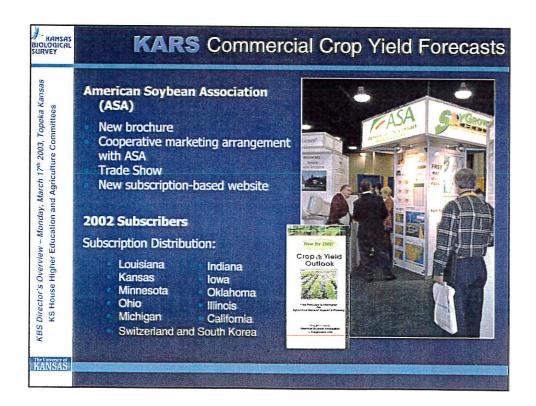




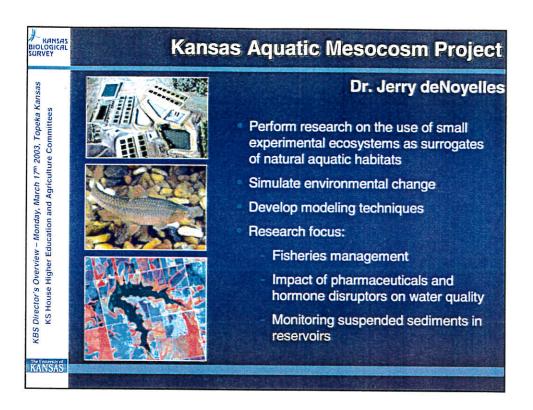


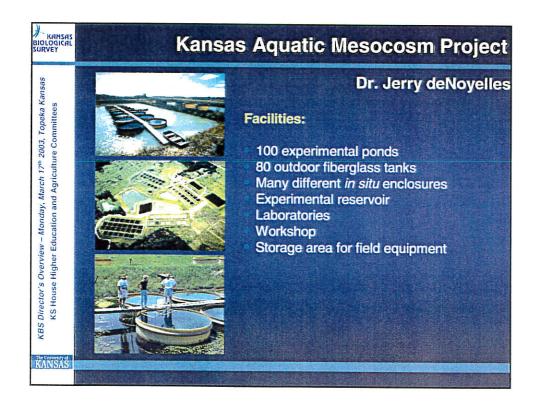
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Kansas City Area Life Sciences Institute, Inc.

Update
Presented to: Higher Education Committee
State of Kansas
House of Representatives



March 17, 2003

Life Sciences, What is it?



Biology of:

- · Humans
- · Animals
- Plants
- "The study of life processes in humans, animals and plants."



Basic Premise of Life KC Sciences Initiative

Increase in basic life sciences research



Increase in Intellectual Property



 $\label{lem:commercialization} Technology\ Development/Commercialization \ (new products, e.g.\ diagnostics, therapeutics, foods, agricultural products)$

Improves the quality of life for all citizens of the region and the nation.

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House Higher Education Committee

Meeting Date: 3/17/03
Attachment No.:

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KCALSI Role

- Represent the interests of the Kansas City Area life sciences community to the broader community.
- Coordinate the identification and development of major enabling technology research initiatives.
- Identify, qualify, and promote potential collaborative external research funding opportunities with government agencies, foundations, and private sector companies.



KCALSI Role (cont'd)

- Assist in the development and implementation of tools to facilitate sharing resources and information between key stakeholder institutions.
- Provide advocacy and economic development support through our sister organization, the Kansas City Area Life Sciences Institute Association (KCALSIA).



Goal

- Build a Critical Mass in Life Sciences Research in Kansas City
 - Defined as: \$500M in annual life sciences research expenditures by key stakeholder institutions



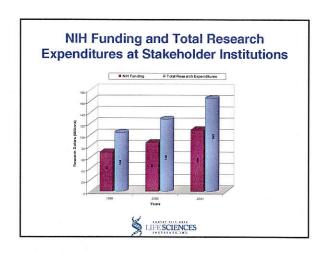
Five Disease Focus Areas

- · Human Development and Aging
- Cancer
- · Cardiovascular Disease
- · Neurological Diseases
- Infectious Diseases

Enabling Technologies

- · Genomics/Proteomics
- Information Technology
- Bioinformatics
- Imaging
- Analytical Sciences





Initial Enabling Technology Initiative: Proteomics

- · Kansas City Proteomics Consortium
- Involves eight key stakeholders, \$53.4M initiative over 5 yrs for facilities, equipment and personnel
- \$13.9M secured since September 2001 (includes KCALSI Federal earmarks of \$5.2M and over \$1M in individual donor grants)

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KCALSI Research Development Grants

- KCALSI funded eight collaborative Research Development Grants @ \$25K each to research teams at four stakeholder institutions
- Grants support preliminary research needed for submission of external proposals (anticipated minimum return of 4:1)



Expansion of Research Capacity at Stakeholder Institutions

- KU Medical Center Research Building and Hoglund Imaging Center (\$84M)
- Stowers Institute for Medical Research (\$300M)
- UMKC Health Science Building (\$40M)
- · Children's Mercy Hospital (\$155M)
- University of Health Sciences Life Science and Education Center (\$10M)

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KUMedical Center

- \$29M Brain Imaging Center
- \$65M Research Facility



Hoglund Brain Imaging Center





KUMED Research Facility





- \$250M facility
- 600,000 sq. ft.
- 600 scientists





Stowers Institute for Medical Research



Expansion of Regional Life Sciences Companies

- Bayer
- Aventis
- · Quintiles
- Teva Neuroscience
- Cerner
- · Boehringer Ingelheim Vetmedica
- · Phoenix Scientific





- Bayer CropScience—Kansas City Core Technology Center
- Bayer Animal Health—\$220 M expansion





Bayer Animal Health Headquarters



Attraction of Life Science Companies

- Serologicals
- Caremark
- McKesson
- Intervet
- Bayer
- Deciphera





- Construction of its new EX-CYTE® manufacturing facility at Lawrence, KS
- Investment of 28 Million
- 60 new jobs





- Relocation of North American HQ & Production
- \$40M Investment
- 170 Jobs





- · Relocation HQ & Research
- Venture Funding



KCALSI Commercialization Partners

- KU Office of Technology Transfer and Intellectual Property
- KC Catalyst
- · BioMed Valley Inc.
- MRI Ventures
- KTEC



Representative Life Sciences Companies Spawned

- Cydex
- Xenotech
- ProQuest
- · ImmunoGenetix Therapeutics
- Admunex Therapeutics
- CritiTech
- · Sceptor Industries



SBIR Total Phase 1 and Phase 2 Awards and Dollars Awarded by Year Kansas and Missouri Total Phase 1 and Phase 2 Awards and Missouri Total Phase 1 and Phase 2 Awards and Missouri Total Phase 3 Awards and Missouri Total Phase 3 Awards and Missouri Total Phase 3 Awards and Missouri Total Phase 4 Awards and Missouri Total Pha

Momentum in KC Region? Progress/Success to Date?

- · Significant upward trend in research expenditures
- ~\$500M in ongoing or approved facilities & equipment investment (public and private investment)
- Success realized in recruitment of world class scientists (e.g. SIMR success rate = 80+%)
- Technology Development / Commercialization— Company Start-ups
- Capacity/Infrastructure Development (Proteomics Consortium)



Economic Impact?

- \$1M in Research Expenditures Supports 41 Jobs in the Community
- ~\$500M in Ongoing/Approved Investment in Facilities and Equipment = jobs in construction and related industries
- Commercialization of IP—New Startup Companies = Professional Services Demand



What Remains to be Done? Resources Needed?

- Continued Support of our Universities
 - Faculty, facilities, equipment
- Continue to Recruit the Best Scientists
- Development of Commercialization Infrastructure
 - Wet Lab Incubator Development
 - Capital Formation
- Workforce Development



KCALSI Annual Dinner and Life Sciences Research Day (March 26, 2003 and March 27, 2003)

