Approved: January 25-1996

#### MINUTES OF THE SENATE COMMITTEE ON COMMERCE.

The meeting was called to order by Chairperson Alicia Salisbury at 8:00 a.m. on January 24, , 1996 in Room 123-S of the Capitol.

Members present: Senators Salisbury, Burke, Downey, Feleciano, Gooch, Harris, Jordan, Petty, Reynolds, Steffes and Vidricksen.

Committee staff present: Lynne Holt, Legislative Research Department

Jerry Donaldson, Legislative Research Department

Bob Nugent, Revisor of Statutes Betty Bomar, Committee Secretary

Conferees appearing before the committee:

Rich Bendis, President, KTEC

Val J. Stella, Director, Center for Drug Delivery Research, Overland Park Timothy Newell, Office of Science & Technology Policy, Washington, D.C.

Others attending: See attached list

The Chair informed the Committee she was referring **SB 501 - concerning municipalities;** relating to tax increment financing to the TIF Subcommittee chaired by Senator Ranson for consideration and recommendations to the full committee.

Dr. Val J. Stella, Professor of Pharmaceutical Chemistry, University of Kansas Medical School, Director for Drug Research, Higuchi Biosciences Center, and Director, Center for Drug Delivery Research. Professor Stella told the Committee of his experience in delivering a drug product from research to a commercial product and the 15 years it has taken which has resulted in a low monetary return. Professor Stella advised the Committee that with the assistance of KTEC and its expertise in investment and commercialization of products, the prospective return of investment, both monetary and creation of jobs, is greatly enhanced. Professor Stella informed the Committee of one particular pharmaceutical product, Cyclodextrin, whose potential to the University, KTEC and the State of Kansas is at least \$100 - 200 million. Professor Stella stated that the assistance of KTEC and the expertise it offers to the science and technology fields, has assisted in creating new products, hi-tech jobs and economic development in the state. Attachment 1.

Timothy Newell, Office of Science & Technology Policy, Washington, D. C. advised in light of new realities, both domestic and international, it is vital the federal government, private industry, and the states, restructure their support of science and technology. Believing that science and technology are central to the nation's economic well-being, John Gibbons, Assistant to the President for Science and Technology, asked former governors Richard Celeste of Ohio and Dick Thornburgh of Pennsylvania in 1995 to work with the National Governors' Association, the National Conference of State Legislatures, and the Carnegie Commission on Science, Technology, and Government, and the American Society of Mechanical Engineers, to address these issues. In response to this request, Gov. Celeste and Gov. Thornburgh formed the 20-member State-Federal Technology Partnership Task Force, which included sitting governors and state legislators, academic leaders and industrial executives. Senator Dave Kerr was a member of the Task Force and Rich Bendis, was an alternate for Senator Kerr.

The Task Force recommended: 1) a joint high-level state-federal policy mechanism should be established to improve the coordinated development and implementation of science and technology policies. 2) each governor is encouraged to establish, with the help of industry, academia, and local economic development authorities, a state science and technology strategy. 3) take full advantage of the capabilities of states in ensuring that the benefits of research and development reach the market by stimulating research and technology commercialization in the private sector through coordination of state and federal public-private technology partnerships; and 4) federal-state-industry jointly undertake a national manufacturing excellence initiative, to increase small and medium-sized manufacturers' access to the technology and expertise necessary

#### **CONTINUATION SHEET**

MINUTES OF THE SENATE COMMITTEE ON COMMERCE, Room 123-S Statehouse, at 8:00 a.m. on January 24, 1996.

for American industry to compete internationally. <u>A copy of *The State-Federal Technology Partnership Task Force final report* is on file in the office of Legislative Research.</u>

<u>Upon motion by Senator Reynolds, seconded by Senator Jordan, the Minutes of the January 23, 1996 meeting were approved.</u>

The meeting adjourned at 9:00 a.m.

The next meeting is scheduled for January 25, 1996.

### SENATE COMMERCE COMMITTEE GUEST LIST

DATE: January 24. 1996

NAME	REPRESENTING
MIKE WOJCICKI	KTEC
HARWCO STONES  Janui Rutherford	KTEC (CL) KBA KTEC
HARWCO STONES	KBA
Janu Kutherford	KTEC
. 0	

### A Presentation to the

### **Senate Commerce Committee**

and the

## **House Economic Development Committee**

By

## Valentino J. Stella Director

**Center for Drug Delivery Research** 

A Member Center of the Higuchi Biosciences Center

A Kansas Technology Enterprise Corporation Center of Excellence

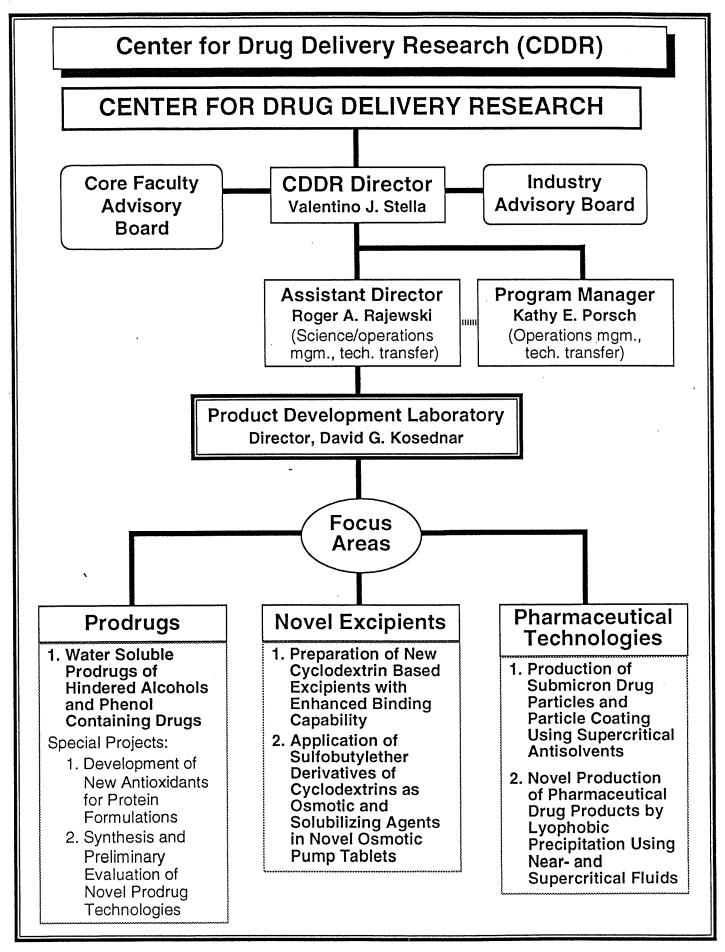
> Aenate Commerce Committee January 24, 1996

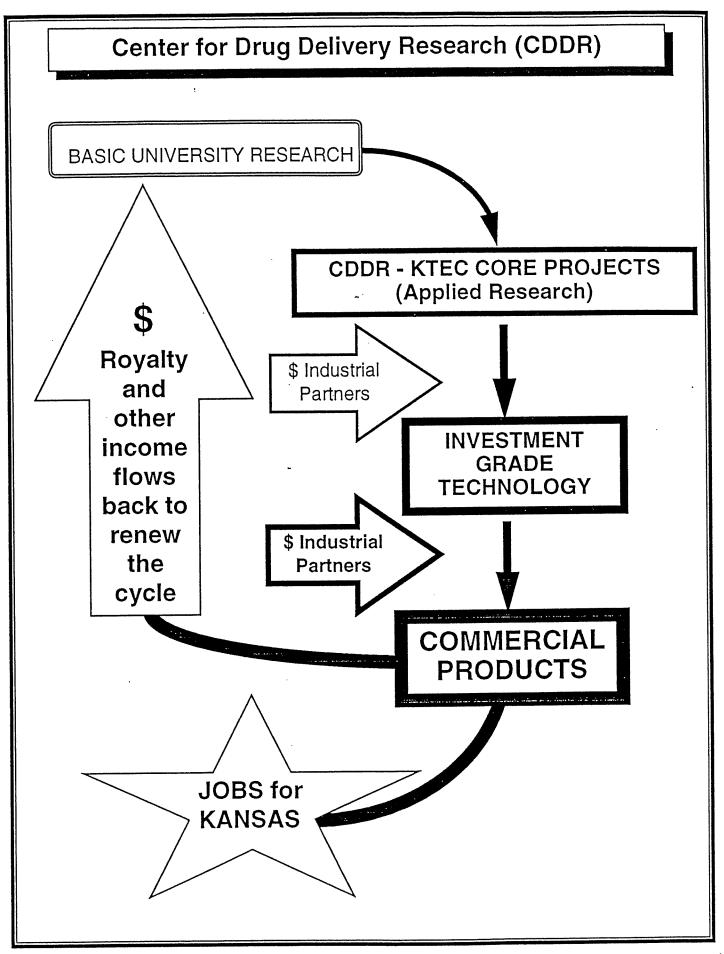
> > attachment 1 thew 1-12

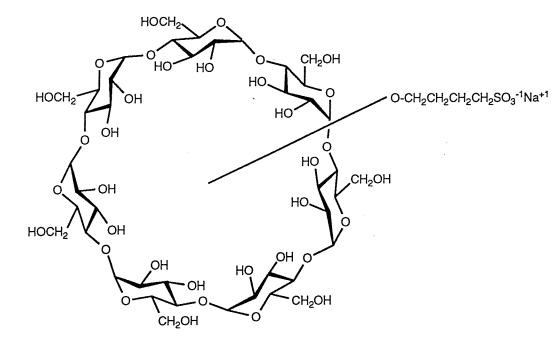
### **CDDR MISSION STATEMENT**

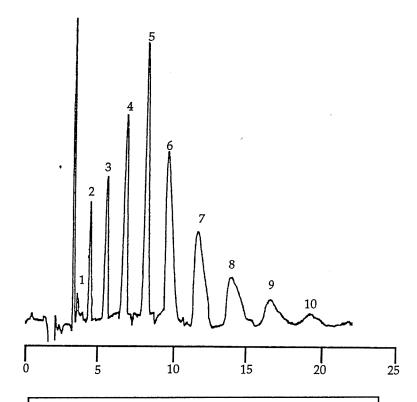
The mission of The Center for Drug Delivery Research is to:

- Conduct drug delivery research to develop life enhancing and life saving pharmaceutical products.
- Commercialize these products in ways that guarantee an economic return to Kansas.
- Provide training and appropriate technology assistance to Kansas companies.









Higuchi Seminar March 1993

# Center for Drug Delivery Research (CDDR) BASIC UNIVERSITY RESEARCH Cyclodextrins **CDDR - KTEC CORE PROJECTS** (Applied Research) Cyclodextrins **INVESTMENT** Pfizer, Inc.; GRADE **TECHNOLOGY** CyDex, L.C. Cyclodextrins **COMMERCIAL PRODUCTS** Cyclodextrins

## **Cyclodextrin Development Options**

KU/HBC

KU Technology Transfer Office

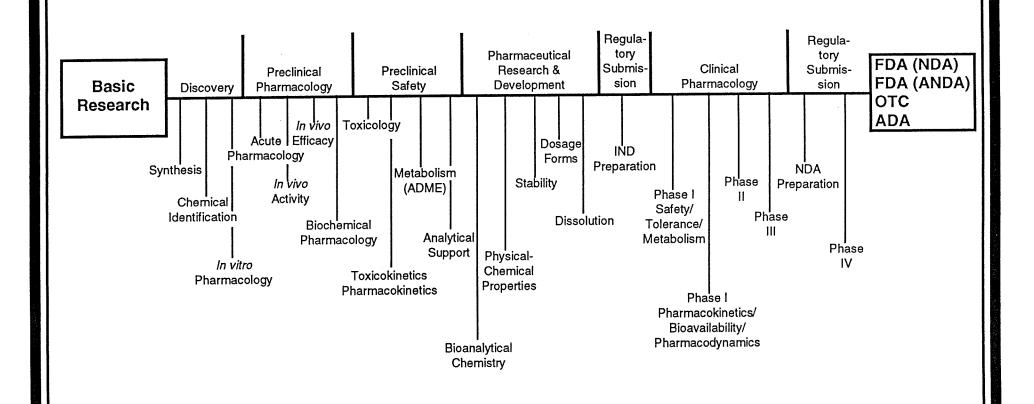
Research Corporation

Kansas Company

Kansas Alliance Company

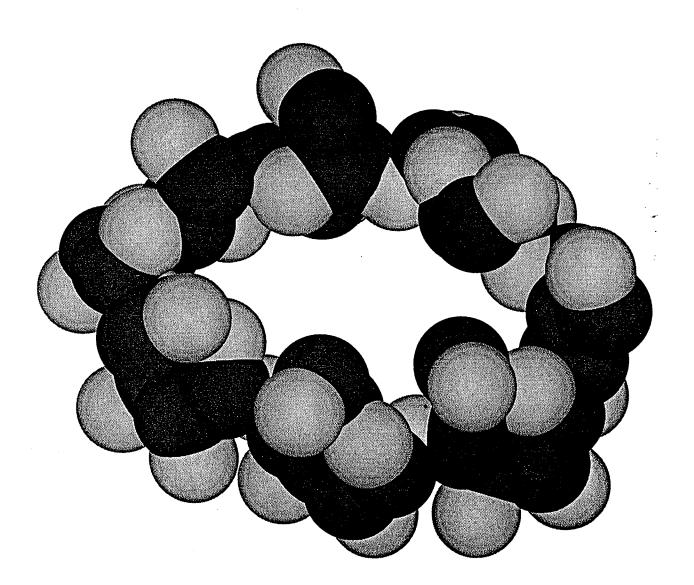
OPTION	PROS	CONS
KU/HBC	100% Ownership Product champion Licensing	Personnel Product champion Product applications? Cost Expertise Kansas economic dev.?
KU Technology Transfer Office	100% Ownership Product champion Licensing	Timing to create/establish Product champion Product applications? Cost Personnel Expertise Kansas economic dev.?
Research Corporation	Easy to administer Experienced licensing	Loss of ownership 57% to Research Corp. Correct experience? Pharm. product dev.? Kansas economic dev No control
Kansas Company	>% Return to KU Equity for KU? Licensing & products? Kansas economic dev.	<% Return to KU Timing to create/establish offsets split to company Cost-product dev. Personnel Expertise
Kansas Alliance Company	Easy to administer Expertise >% Return than PC Equity for KU?	May have to give up some ownership <% Return than PC

## **Pharmaceutical Development**





CyDex, L.C.



## SBE Cyclodextrins

Delivering Solution Opportunities

# KU/CyDex Historical Background

- US Patent issued to KU claiming its sulfobutylether
   β-cyclodextrin technology ("SBE-CD") in July 1992
- CyDex established August 1993
- KU License agreement signed September 1993
- KU/Pfizer agreement signed December 1993 and immediately assigned to CyDex
- CyDex awarded the Silicon Prairie Technology Association's 1994 Technology of the Year in Bioscience

# 6/-1

# **CyDex Current Status**

- Preclinical and clinical studies completed
- Manufacturing process scale up
- Regulatory submissions for two SBE-CD formulated products in 1995
- Perkin Elmer marketing SBE-CD as a chiral reagent for capillary electrophoresis
- SBE technology currently under evaluation in over 75 pharmaceutical companies