

May 2016

Introduction and Table of Contents

Kirk Schulz
Kansas State University

Ron Trewyn
Kansas State University

Follow this and additional works at: <https://newprairiepress.org/seek>



Part of the [Higher Education Commons](#)



This work is licensed under a [Creative Commons Attribution-Noncommercial-No Derivative Works 4.0 License](#).

Recommended Citation

Schulz, Kirk and Trewyn, Ron (2012) "Introduction and Table of Contents," *Seek*: Vol. 2: Iss. 1.

This Article is brought to you for free and open access by New Prairie Press. It has been accepted for inclusion in *Seek* by an authorized administrator of New Prairie Press. For more information, please contact cads@k-state.edu.

Perspectives



W i n t e r 2 0 1 2

www.k-state.edu/perspectives

Message from President Kirk Schulz and Vice President for Research Ron Trewyn



At Kansas State University we have set ourselves an ambitious goal: to become a top 50 public research university by 2025.

As we collaborated with our faculty, staff and other members of the university family about what it takes to become a top 50 institution, we concluded that it is critical for the university to ensure that our discoveries and strengths benefit not just Kansas State University but the broader community — the state, the nation and the world.

With the help of two not-for-profit corporations — the Kansas State University Research Foundation and the Kansas State University Institute for Commercialization — the discoveries and innovations by our researchers benefit Manhattan and the region by increasing commercialization of new technologies.

The Institute for Commercialization helps facilitate the commercialization of technologies for regional economic and social benefits. The Research Foundation works with Kansas State University faculty, staff and students to secure legal protection — predominantly patents — for intellectual property created at the university.

We believe these efforts are integral to the university's goal to become recognized as a top 50 public research university by 2025.

This includes value-added research within the state, the flow of funds into the university and the state of Kansas through licensing agreements, and the startup companies spun off. These bring opportunities for jobs and further resources to the area.

The Research Foundation has the responsibility for managing the intellectual property portfolio of the university, with the Institute for Commercialization serving as the Research Foundation's commercialization agent.

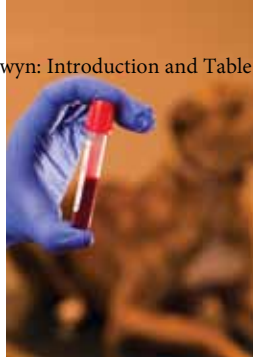


Among the Institute's successes is bringing companies to Kansas State University and the region. The Institute brought animal health company Abaxis into a strategic alliance with the university and its veterinary diagnostic lab. This year Abaxis moved into the Kansas City area, home of the university's Olathe campus. You can read more about that partnership in this issue.

This issue covers how university-industry collaboration, enhanced by the work of faculty, staff and graduate and undergraduate students, is part of what makes Kansas State University unique — and a positive force in the state and nation.

A handwritten signature in black ink, appearing to read "Kirk Schulz".

A handwritten signature in black ink, appearing to read "Ron Trewyn".



contents

Safe food for all

The Great Plains Diagnostic Network is protecting our food supply through early detection, accurate diagnosis and improved communications 2

Developing electronics, driving the economy

How the Electronics Design Laboratory turns to technology to help research, industry 4

Science of sustenance

Foods laboratory helps Kansas companies prosper 6

Diagnostic laboratory's impact continues to broaden with new testing, partnership

8

Engineering a profitable future

Advanced Manufacturing Institute helps industry, companies succeed 10

Taking commercialization to new heights

Unmanned aerial systems research takes off 12

At home and away

University research, outreach benefit soldiers in the field and their families at home 14

A bridge for brainpower

Kansas State University Institute for Commercialization brings technologies to industry, benefiting economies 16

A broad foundation for intellectual property

18

Beef Cattle Institute links beef industry and public with timely university research, information

20

Visit k-state.edu/perspectives to see videos from this issue.

Front cover: From lasers to hydrogels, Kansas State University innovations and research are making industries and the economy stronger. It's one of the many ways the university is working to become a top 50 public research university by 2025.

Contributors



Erinn Barcomb-Peterson
Director of News/Editorial



Beth Bohn
Writer/Editor



Trevor Davis
Writer



Cheryl May
Assoc. Vice President



David Mayes
Photographer



Katie Mayes
Director of Marketing



Megan Molitor
Writer



Jeff Morris
Vice President



Jim Rigg
Design Director



Bethany Sanderson
Writer



Tyler Sharp
Writer



Rachel Skybette
Writer



Greg Tammen
Writer



Jennifer Tidball
Writer



Lindsey Elliott
Video Producer



Guolin Zhao
Designer