KPPC - Kentucky’s Technical Resource Center ............2
Programs and Initiatives ........................................3
Program Delivery..................................................4
Client Success......................................................5
Strategic Partnerships ............................................6
The Year in Review................................................7
A Look Back........................................................8
Annual Budget......................................................9
KPPC’s Board of Directors .....................................9

KPPC – Kentucky Pollution Prevention Center
J.B. Speed School of Engineering University of Louisville
Phone: 502-852-0965
Fax: 502-852-0964
Toll-free: 800-334-8635 ext. 8520965
Web: www.kppc.org

KPPC’s Mandate
Kentucky Revised Statutes (KRS) 224.46-305 et. seq. established KPPC in 1994 to facilitate and promote the implementation of pollution prevention technologies and procedures by providing technical assistance to business and industry. KPPC has executed this mandate by assisting clients to effectively implement source reduction technologies and practices that result in reduced environmental impact and operating expenses, which contributes to preserving and strengthening industry in Kentucky.

Funding
Per KRS 224.46-305 et. seq., the Kentucky Energy and Environment Cabinet remits 20 percent of the funds received by the Hazardous Waste Management Fund to KPPC each fiscal year. This funding source will be up for review by the Kentucky General Assembly in 2016.

This base funding that KPPC receives allows the Center to provide its core services and helps leverage state resources through federal grants to provide pollution prevention services to Kentucky.

More information about KPPC’s...
mandate is available at: http://www.lrc.ky.gov/krs/224-46/320.PDF
funding is available at: http://www.lrc.ky.gov/krs/224-46/580.PDF
Board of Directors is available at: http://www.lrc.ky.gov/krs/224-46/315.PDF
From KPPC’s Leadership

As KPPC’s Board Chairman, I am submitting this annual report of KPPC’s programs and implementation efforts toward improving the environment through pollution prevention (P2) and preserving and strengthening industry in Kentucky. This year’s annual report outlines the programs, services and client success stories that demonstrate what a valuable resource KPPC is for Kentucky. Although it has been a difficult fiscal year financially for the Center, resulting in a substantial reduction in its staff, KPPC continues to move forward by providing the highest possible level of professional technical services for the Commonwealth while seeking grants and other sources of funding to continue its important mission.

On behalf of the Board, I would also like to take this opportunity to thank Cam Metcalf for his exceptional service as Executive Director of KPPC. Cam will be retiring from KPPC in October of this year. He was the founding Executive Director of the Center when it was established in 1994 and has lead KPPC for the past 19 years as it grew from a small, state-mandated center at the University of Louisville into an award-winning, nationally recognized Center of Excellence. I am certain that Cam, as one of the pioneers in pollution prevention, will continue to be an important voice in the national dialogue on environmental sustainability in the years ahead. The Board members of KPPC wish him all the best.

This annual report is the board’s case statement to Kentucky’s Governor, General Assembly, business and industry leaders, environmental organizations and the community-at-large that an investment in responsible environmental stewardship does indeed pay off. Therefore, the Board of Directors advises the Governor and the General Assembly that there is a need to continue financing the Center through the levy of fees to the Hazardous Waste Management Fund. As Board Chairman, I would like to thank members of the Board of Directors, KPPC’s staff, and KPPC’s partners whose efforts contribute so much to the Center’s success. On behalf of KPPC’s Board of Directors, I offer my thanks to you for your continued interest and support and I hope you enjoy reading about KPPC’s services.

Douglas C. Griffin
Board Chairman

KPPC Executive Director Cam Metcalf & Assistant Director Lissa McCracken

KPPC’s 2012–2013 annual report highlights the successful completion of a number of important projects for the Commonwealth. Through its pollution prevention (P2) technical assistance services and outreach programs, KPPC has helped its clients succeed while improving the state’s overall environmental and economic performance. KPPC is a voluntary service and by focusing on its clients’ needs, Kentucky organizations are establishing sound environmental management programs, changing the way they operate, turning to less toxic materials use and realizing year-over-year reductions in operational expenses making environmental sustainability a component of sound business practices.

KPPC measures its success by the success of its clients. We are proud of the fact that several of the Center’s clients have won awards and received national and statewide recognition for their environmental management efforts this fiscal year. The cost savings measures and sustainability initiatives they have undertaken demonstrate the value of KPPC’s commitment to building strong professional relationships with its clients as they make sustainability an integral part of a sound business strategy. KPPC’s team of engineers, communications and information technology specialists and administrators constantly look for more efficient ways to serve a broad range of organizations from across the Commonwealth. The continued support of the Kentucky General Assembly and funding provided by the Hazardous Waste Management Fund have enabled the Center to continue to provide technical assistance while building lasting trust and commitment among our industrial and commercial sector clients.

While the Center has faced funding challenges this fiscal year, we are committed to serving as many of our clients’ needs as our resources permit. KPPC continues to seek additional funding for the Center’s mission through grants and contracts from a variety of sources for the environmental and economic benefit of the Commonwealth. Since the launch of KPPC nearly 19 years ago, Cam has decided to retire and spend more time with his family and friends and to seek new challenges in his professional development. “Being the Executive Director of KPPC has been a most wonderful experience for me and has enriched my life because of the interaction and networking with so many folks.” Cam stated. “I am excited about the future of the Center because of the leadership and staff in place, the support of the Board of Directors, the Speed School of Engineering and the University of Louisville and the partnerships in place and yet to be established. As I look forward to the future, I am enthusiastic about a new era for KPPC and the benefits for the clients, the environment and the quality of life in Kentucky because of the Center’s mission.”

If you have questions or would like to learn more about the Center, please call us at (502) 852-0965 or log onto www.kppc.org.

Cam Metcalf
Executive Director

Lissa McCracken
Assistant Director
A Resource for the Commonwealth
KPPC is a state-mandated technical assistance resource center that was established in 1994 as part of the J.B. Speed School of Engineering at the University of Louisville.

The Center’s resources, expertise and experienced engineering and technical staff make it a valuable resource that helps Kentucky’s businesses, industries and other organizations stay environmentally sustainable and competitive in a global marketplace.

KPPC has been recognized on both state and national levels as a Center of Excellence. The Center has conducted over 800 workshops, seminars and training sessions, and more than 40,000 attendees have benefited from these learning opportunities. KPPC’s on-site assessments have helped more than 780 Kentucky businesses and organizations improve their environmental performance and lower their operating costs.

Continuing a Tradition of Service
Over the years, KPPC’s technical assessments have been refined to provide customized services tailored to each client’s specific needs. The goal is to drive continual improvement of environmental performance through cultural and behavioral change within an organization.

KPPC’s systematic approach is key to providing clients with the tools and team building skills necessary to achieve positive results. Based on the ENERGY STAR Seven-Step process, each element of the seven steps can be leveraged to apply to all aspects of environmental sustainability, including energy management, source reduction and pollution prevention.

Regardless of a client’s initial area of interest when requesting KPPC’s services, the processes, training and sustainability opportunities can successfully transfer to other activities within an organization.

“Working with KPPC helped us ‘catch the fever’ about the benefits of environmental sustainability. KPPC helped put measures in place to identify where the company is with respect to its ES efforts. Prior to working with KPPC, there was no baseline to identify how much waste we were generating and how much cost went into managing that waste. You catch the fever when you see real, measurable improvements.”

Joey Harris
Plant Manager, Denyo Manufacturing Corporation

Principles of Sustainability
KPPC serves Kentucky’s businesses, industries and other organizations by providing technical assistance programs, training and resources while following the principles of environmental sustainability.

These principles include:

Taking responsibility for social well-being
When an organization improves its environmental performance, it is acting in the best interests of its owners, employees, the community in which it operates and the nation as a whole. The health, safety and well-being of a society should be a shared responsibility of all its members.

Achieving economic benefits
As organizations move toward sustainability, they find that there are economic as well as environmental benefits. By reducing hazardous and non-hazardous waste, hazardous air emissions, water usage and discharge and energy consumption, businesses and industries can dramatically improve operational performance, reduce costs and gain a competitive advantage in the global marketplace.

Practicing environmental stewardship
By taking a balanced approach, an organization can become an environmental steward by thoughtfully using our natural and economic resources while considering the needs of future generations.

KPPC’s Mission
KPPC is Kentucky’s primary resource to help businesses, industries and other organizations develop environmentally sustainable, cost-saving solutions for improved efficiency.

KPPC’s core technical services are:

Free, Confidential & Non-Regulatory
Programs and Initiatives

Customized Services/Behavioral Changes
Over the years, KPPC’s technical assessments have been refined to provide customized services tailored to each client’s specific needs. The Center’s programs and resources have helped our clients achieve organizational behavioral changes that improve their environmental performance and lower their costs.

KY SEN – Kentucky Save Energy Now Program
KPPC’s KY SEN program helped energy-intensive facilities build self-sustaining energy-savings programs, with the goal of reducing their energy use by at least 2.5 percent per year for 10 years. Thirty industrial and commercial facilities from across the Commonwealth have signed the pledge and enrolled in the KY SEN program.

At the start of the program in 2010, KPPC established an overall program goal of identifying 200,000 MMBtu in source energy savings for industrial and large commercial clients. KPPC surpassed that goal and identified 668,000 MMBtu in energy savings.

KPPC offered KY SEN participants on-site assessments, training, technology demonstrations, assistance with identifying project implementation resources, recognition of achievements and online resources to help develop a systems approach to Pollution Prevention (P2) and Energy Efficiency (E2) efforts. Substantial reductions in waste and energy use were identified for KY SEN participants.

KY SEN II was completed in fiscal year 2012-2013, but the program will continue with additional funding from the U.S. Department of Energy and the U.S. Environmental Protection Agency.

Kentucky E3 Initiative
KPPC is the project lead and facilitator for the Kentucky E3 initiative. Consistent with the federal E3 initiative, KY E3 features a collaborative approach involving stakeholders from a variety of state and local agencies and organizations including: Kentucky Energy and Environment Cabinet, U.S. Small Business Administration Kentucky District Office, USDA KY Office, Kentucky Education and Workforce Development Cabinet - Office of Employment and Training, KY Technical College Systems, KY Small Business Development Centers, Advanced KY Alliance, and utility representatives from East Kentucky Power Cooperative, LG&E and KU Energy LLC and Duke Energy.

E3 Assessments
KPPC and the Alabama Technology Network (ATN) conducted a joint training/assessment event to train staff, identify opportunities and develop an Action Plan in the areas of lean production, energy conservation and waste minimization for Indelac Controls, Inc. in Florence, Kentucky and Hausner Hard Chrome, Inc. in Owensboro, Kentucky.

KPPC’s participation was funded through a federal Environmental Protection Agency Source Reduction Assistance grant.

A total of 43 recommendations were identified and prioritized for Indelac and 54 recommendations were identified for Hausner. With assistance from KPPC, personnel from both companies conducted regular meetings to implement identified recommendations and identify and incorporate new ideas in a continual improvement cycle. All assistance was provided at no cost to the participating companies.

Energy Northeast Demonstration Project with Republic Conduit, Inc.
Republic Conduit, in partnership with KPPC, participated in the U.S. Department of Energy Northeast Demonstration Project for the Superior Energy Performance Program (SEP) which included implementation of the new ISO-50001 energy management standard. The new standard is designed to help industrial facilities implement energy management strategies and achieve ambitious energy performance goals. At the close of the demonstration project in February 2013, Republic Conduit prepared to meet the requirements of ISO-50001 and positioned itself to pursue Superior Energy Performance certification.

Companies participating in the demonstrations test the elements of Superior Energy Performance. Republic Conduit received training and support to:

• Implement the ISO-50001 energy management standard, conform to the additional requirements of SEP, and improve energy performance on a continual basis
• Reduce energy-related costs and carbon emissions
• Monitor and verify energy performance improvements

KPPC Trains Engineers and Clients in Sustainable Manufacturing
KPPC hosted a week-long Sustainable Manufacturing Workshop in Louisville that helped energy managers, engineers and plant managers at industrial and commercial facilities advance their understanding of the technical aspects of pollution prevention. The workshop drew industrial facility representatives from across the Commonwealth and also helped KPPC engineers further develop their knowledge base so that they can better assist Kentucky companies with their sustainability efforts.

The training sessions were designed by Purdue University Technical Assistance Program’s Green Enterprise Development and licensed for presentation by the Alabama Technology Network. Those successfully completing the workshop could apply for Green Manufacturing Specialist certification.
During the 2012-2013 fiscal year, KPPC's services, programs and online resources were delivered to 88 of Kentucky's 120 counties.

Updated Consultants Directory
KPPC's Consultants Directory was updated this fiscal year to provide a more complete and current list of companies that specialize in consulting services in emergency response, environmental consulting or engineering, laboratory services, regulatory compliance, site remediation, UST management, waste management, pollution prevention and environmental management systems.

Workshop Sessions at KAM Conference
On May 14 and 15, 2013, the Kentucky Association of Manufacturers (KAM) held its third annual energy conference at the Lexington Convention Center. The conference provided opportunities to learn about changes in manufacturing and energy legislation, network with other manufacturers, and hear from manufacturing colleagues their “best practices” and the economic effect of specific energy and environmental initiatives.

KPPC organized three breakout workshop sessions for conference participants:

- Solutions for Eliminating, Reducing and Reusing through Pollution Prevention Programs.
- Take Your Facility’s Energy Plan to the Next Level with Certification and Recognition.
- Economic Development Resources for Manufacturers – Kentucky E3 (Economy • Energy • Environment) Opportunities

Kentucky Energy Alliance Roundtable and Facility Tour
KPPC created the Kentucky Energy Alliance (KEA) to help energy-intensive industrial and commercial facilities develop and implement energy efficiency programs. The sixth meeting of KEA was held in Louisville, Kentucky, at Kindred Healthcare on August 22, 2012.

The KEA meetings provided a forum for energy managers, facility engineers and operators from various industries to network with one another and discuss energy management at their respective facilities.

KPPC Executive Director Cam Metcalf discussed the Center’s long history of helping Kentucky companies address pollution prevention (P2). He encouraged the KEA participants to leverage the success of their energy-management efforts by working with KPPC to expand their areas of focus to include other aspects of environmental sustainability.

Delivering Measurable Results to Kentucky’s Businesses, Industries and Organizations
In Fiscal Year 2012-2013, KPPC’s team of engineers:

- Served 49 unique industrial and commercial facilities
- Conducted 18 assessments
- Assessed approximately 2.6 million square feet of space

In all, KPPC identified the following savings:

- Site Electrical – 5,285,656 kWh/yr
- Source Electrical – 17,654,091 kWh/yr
- Demand – 3,650 kWh/yr
- Site Natural Gas – 10,489 MMBtu/yr
- Source Natural Gas – 10,988 MMBtu/yr
- Total Source Savings – 215,059 MMBtu/yr
- Hazardous Waste – 440,000 lbs/yr
- Cost Savings – $867,770/yr
- Carbon Dioxide (CO2) Equivalent – 4,286 MT/yr

The CO2 equivalent reductions are equal to:

- Annual Greenhouse Gas Emissions from 893 passenger vehicles
- CO2 from 9,968 barrels of oil consumed
- 57 tanker trucks of gasoline
- Carbon sequestered from 109,902 tree seedlings grown for 10 years

Key:

Btu – British Thermal Unit
MMBtu – Million Metric British Thermal Units
MT – Metric Ton
kWh – Kilowatt-hour

“Our hard work to establish self-sustaining energy-saving programs has helped increase our competitiveness... our partnership with KPPC has been instrumental in the development of our energy management planning, reporting and sustainability.”

TOPY America President, Terry Kurihara
Client Success

KPPC measures the success of its programs and services by the success of the industries and organizations it serves.

Kindred Healthcare Earns Highest-level Award for Advances in Energy Management

Kindred Healthcare, which operates long-term care hospitals and nursing centers across the United States, has earned Level Five recognition for its progress in reducing energy usage through the Kentucky Save Energy Now (KY SEN) initiative. Administered by KPPC, KY SEN helps energy-intensive facilities build self-sustaining energy-savings programs.

Kindred was the first company to sign the KY SEN pledge in 2010, committing to reducing energy use at the facility by 2.5 percent per year for 10 years. Since then, they have worked with KPPC engineers to strengthen their energy management program, and have been recognized at previous KPPC events for progressing through the first four levels of achievement for KY SEN.

KY SEN Award Winners

Companies across the Commonwealth signed the Kentucky Save Energy Now (KY SEN) pledge, committing to reduce energy use at their facilities by 2.5 percent per year for 10 years. Three companies that joined the KY SEN program were recognized by KPPC at an August 22 awards ceremony in Louisville, along with long-time KY SEN member Kindred Healthcare. The awards program is based on five levels of achievement. Award winners are: Vogt Ice – Level 1; Anheuser-Busch – Level 1; JOM Pharmaceutical Services, Inc. – Level 4.

The United States Playing Card Co. Wins KY Energy Leadership Award

KPPC’s client, The United States Playing Card Co. (USPC), won a 2012 Energy Leadership Award during the Governor’s Conference on Energy and the Environment in October 2012. Energy Leadership Awards recognize leaders in the Kentucky energy field who have made significant contributions by promoting and utilizing energy efficiency and alternative energy sources as a way to achieve their sustainability goals. USPC enrolled in the KY Save Energy Now Program (KYSEN) in 2010, with the goal of achieving cost savings through energy efficiency and waste minimization.

Through several cost savings initiatives, including tariff rate changes, facility lighting upgrades, compressed air system optimization, and reusing paper roll cores, USPC’s sustainability efforts have resulted in annual energy savings of 5,400 MMBtu (one million British thermal units) and cost savings of over $290,000. USPC is also actively engaged in KPPC’s Kentucky Energy Alliance (KEA).

KPPC Client wins a Kentucky Association of Manufacturers (KAM) 2012 Award

On November 9, KAM presented the 2012 Manufacturers & Employee of the Year awards at a luncheon event in Louisville. Catlettsburg Refining, LLC won in the Large Business Category; Denyo Manufacturing Corporation won in the Mid-Size Business Category; and Universal Woods, Incorporated, won in the Small Business Category.

Denyo Manufacturing Corporation, a KPPC client since 2007, has made remarkable progress in reducing its air emissions and hazardous waste generation. In April 2013, Denyo’s air quality permit was rescinded by the Kentucky State Air Permit Review Branch based upon the company’s reduced emission calculations. Denyo will no longer have to be registered as a potential air emission source.

In addition to lowering its air emissions, Denyo has reduced its hazardous waste generation as well and is now no longer required to pay into Kentucky’s Hazardous Waste Management Fund (HWMF).

The United States Playing Card Co. Wins KY Energy Leadership Award

KPPC’s client, The United States Playing Card Co. (USPC), won a 2012 Energy Leadership Award during the Governor’s Conference on Energy and the Environment in October 2012. Energy Leadership Awards recognize leaders in the Kentucky energy field who have made significant contributions by promoting and utilizing energy efficiency and alternative energy sources as a way to achieve their sustainability goals. USPC enrolled in the KY Save Energy Now Program (KYSEN) in 2010, with the goal of achieving cost savings through energy efficiency and waste minimization.

Through several cost savings initiatives, including tariff rate changes, facility lighting upgrades, compressed air system optimization, and reusing paper roll cores, USPC’s sustainability efforts have resulted in annual energy savings of 5,400 MMBtu (one million British thermal units) and cost savings of over $290,000. USPC is also actively engaged in KPPC’s Kentucky Energy Alliance (KEA).

KPPC Client wins a Kentucky Association of Manufacturers (KAM) 2012 Award

On November 9, KAM presented the 2012 Manufacturers & Employee of the Year awards at a luncheon event in Louisville. Catlettsburg Refining, LLC won in the Large Business Category; Denyo Manufacturing Corporation won in the Mid-Size Business Category; and Universal Woods, Incorporated, won in the Small Business Category.

Denyo Manufacturing has been a long-time KPPC client. Plant Manager/Director Joey Harris shared his appreciation with KPPC Executive Director Cam Metcalf, saying, “I would like to thank you to you and the rest of the staff at the Kentucky Pollution Prevention Center for your advice and assistance over the past several years.

A big part of the reason that Denyo Manufacturing Corporation was selected for the Kentucky Association of Manufacturing’s mid-size ‘Manufacturer of the Year’ award was due to the environmental sustainability improvements that we implemented due to you and your staff’s guidance.”

As a result of its work with KPPC, Denyo has improved its recycling of scrap metal, cardboard, paper, plastics and wood; reduced water and natural gas consumption; improved wastewater treatment; and achieved better management of process chemicals.

KPPC’s Environmental Sustainability Award Winners

Hausner Hard-Chrome of Owensboro and The United States Playing Card Company of Erlanger are winners of the Center’s 2012 Environmental Sustainability Award. The Center has presented the awards in conjunction with National Pollution Prevention (P2) Week since 2009 to recognize Kentucky companies that have demonstrated a commitment to the principles of sustainability. Both companies receiving the award this fiscal year have well-developed sustainability programs and teams.
KPPC is actively involved in many industrial, local, state and federal network groups that are active in environmental sustainability efforts.

**ENERGY STAR**

U.S. Environmental Protection Agency
U.S. Department of Energy
KPPC is an Energy Star Partner and has been awarded:
• 2011 Energy Star Partner of the Year
• 2012 Energy Star Partner of the Year
• 2013 “Sustained Excellence” Energy Star Partner of the Year

**KEA – Kentucky Energy Alliance**

KPPC created the Kentucky Energy Alliance (KEA) to promote better energy management for industrial and commercial facilities

**Kentucky Association of Manufacturers**

2012 Energy Conference Planning Committee

**Kentucky E3 Initiative**

(Economy • Energy • Environment)

Kentucky Education and Workforce Development Cabinet
Kentucky Energy and Environment Cabinet
Kentucky Education and Workforce Development Cabinet - Office of Employment and Training
Kentucky Technical College Systems
Kentucky Small Business Development Centers
Small Business Administration (KY Office)
USDA (KY Office)
Advanced Kentucky Alliance
Kentucky Utility Companies - East Kentucky Power Cooperative, Duke Energy Corporation, LG&E and KU Energy LLC

**Kentucky Energy Efficiency Workgroup**

More than 20 organizations from across Kentucky including utilities, environmental groups, non-profits and state agencies

**KY EXCEL – Kentucky Excellence in Environmental Leadership**

Kentucky Division of Compliance Assistance
KPPC is an Advocate Member

**KY SEN – Kentucky Save Energy Now**

Kentucky Department for Energy Development and Independence
LG&E and KU Energy LLC
East Kentucky Power Cooperative
Tennessee Valley Authority

Duke Energy Corporation
Big Rivers Electric Corporation
Fellon-McCord & Associates
Kentucky Energy Efficiency Workgroup

**National Pollution Prevention Roundtable**

Board of Directors and Membership Committee Member
Research, Technology and Energy Workgroup Member
KPPC is a 2025 Safer Chemistry Challenge-Program Alliance Member

**Partnership for a Green City**

University of Louisville
Louisville Metro Government
Jefferson County Public Schools
Jefferson Community and Technical College

**Pollution Prevention Resource Exchange**

Environmental Sustainability Resource Center (U.S. EPA Regions 3 and 4)

**WasteWise Program**

U.S. Environmental Protection Agency
KPPC is a WasteWise Program Endorser

**KPPC Hosts the ESRC**

Through a grant from the U.S. Environmental Protection Agency, KPPC maintains and hosts the Environmental Sustainability Resource Center (ESRC) website.

ESRC is a member of the Pollution Prevention Resource Exchange (P2Rx™), a national network of regional information centers. The objective of the ESRC is to provide technical environmental sustainability information and training to industrial service providers in EPA Regions 3 & 4.

The primary service area for the ESRC is EPA Region 3 & 4, which includes Virginia, West Virginia, Pennsylvania, D.C., Delaware and Maryland. EPA Region 4 includes Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina and Tennessee. ESRC resources and staff are available to users in industry, consulting and universities. Visit the ERC online at esrconline.org.

**ESRC Regional Training**

On September 12, the ESRC held its first webinar as part of a regional training series developed by the Center to help guide facilities toward improvements in environmental performance and cost savings through implementation of pollution prevention opportunities.

The webinar - Water Efficiency, was created to help production managers, facility engineers, plant managers and pre-treatment operators explore the importance of water conservation and how to track and reduce their water consumption. The webinar also focused on water conservation opportunities that could be used at their facilities and case studies from companies who have implemented these opportunities successfully.

**KPPC’s Service to the Commonwealth**

In Fiscal Year 2012-2013, KPPC Executive Director Cam Metcalf served as a member of the following peer organizations:

• Member of the Center for Renewable Energy Research and Environmental Stewardship (CRERES) Board
Reappointed by Kentucky Governor Steve Beshear

• Member of the University of Louisville’s Sustainability Council

• Member of the Greater Louisville Inc. Energy and Environment Committee

• Member of the University of Louisville’s Solid Waste Reduction Committee

J.B. Speed School of Engineering co-op students Natalia Rodriguez and Caitlin Johnson work on “real world” projects with KPPC technical staff. Photo: Caitlin Johnson at KPPC’s exhibit during UofL’s 2012 Sustainability Fair. The co-op program develops educational opportunities for students as they apply their classroom learning to help Kentucky organizations.
KPPC The Year in Review

KPPC Article Featured in GreenBiz P2 Pathways
Collaborating with the Pollution Prevention Resource Exchange (P2Rx), a national partnership of regional centers that advance pollution prevention, Greenbiz.com publishes a regular column, P2 Pathways, featuring a series of articles submitted by P2 technical assistance centers. The December edition features an article by KPPC Executive Director Cam Metcalf called Addressing the Implementation Gap for Pollution Prevention and Energy Efficiency Projects which discussed strategies for successfully implementing pollution prevention and energy efficiency initiatives.

KPPC Wins Two 2012 MVP2 Awards
On September 19, 2012, KPPC accepted two Most Valuable Pollution Prevention (MVP2) Awards at a ceremony in Washington, DC hosted by the National Pollution Prevention Roundtable (NPPR). The awards celebrate the successes of innovators in the areas of pollution prevention and sustainability, and are presented annually during National Pollution Prevention Week.

KPPC Co-ops Volunteer at Youth Summit
Two of KPPC’s Co-operative student engineers acted as energy mentors at the 2012 Brightside Youth Summit. The event allowed middle and high school students from the Greater Louisville Area to learn about sustainable practices including energy, transportation and stormwater. KPPC’s Co-ops, Caitlin Johnson and Natalia Rodriguez, taught students about the basics of sustainable energy practices. Johnson and Rodriguez are pursuing their engineering degrees at the University of Louisville J.B. Speed School of Engineering.

2012 Energy Star “Sustained Excellence” Award
At a March 26, 2012 awards ceremony in Washington, D.C., the U.S. EPA presented KPPC with a 2013 Energy Star Partner of the Year—Sustained Excellence Award for its continued leadership in protecting the environment through superior energy efficiency.

KPPC has been an Energy Star partner since 2005 and won the EPA’s 2011 and 2012 Energy Star Partner of the Year awards.

KPPC on KET’s Kentucky Tonight
KPPC’s Executive Director Cam Metcalf was a panelist on Kentucky Educational Television’s Kentucky Tonight Program which aired on August 13, 2012. The program featured a discussion about energy and the environment. Guests included: Bill Bissett, president of the Kentucky Coal Association; Tom FitzGerald, director of the Kentucky Resources Council; Rodney Andrews, director of the University of Kentucky Center for Applied Energy Research and Cam Metcalf. The program averages about 12,000 viewers during the summer months.

Measuring Communications, Outreach and Technology Efforts
During fiscal year 2012-2013, KPPC’s Communications, Outreach and Technology team helped promote and communicate the Center’s mission by:

- Developing 74 new communications and marketing materials
- Distributing 19,387 marketing and communications e-mails

KPPC’s website received 44,774 page views and 21,402 visits from 130 countries/territories – 69 percent of those were new visits. The website was visited from 117 Kentucky cities covering 88 out of 120 counties in the Commonwealth

The Center’s e-newsletter Sustainable Solutions Post, which provides industry-specific news, tips and resources is mailed each month to more than 930 subscribers.

KPPC’s YouTube Channel added 13 new videos in 2012-2013, bringing the total number of videos available to 60. KPPC’s video channel has had more than 10,660 views.

Training
KPPC staff have the technical expertise needed to deliver training, workshops, webinars and online resources to help its clients develop environmental sustainable management programs, lower their costs and improve efficiencies.

In fiscal year 2012-2013, KPPC developed, delivered or participated in 34 workshops, conferences, webinars and events that attracted 1,356 participants.

“EPA is recognizing KPPC for earning EPA’s highest Energy Star award - the 2013 Partner of the Year—Sustained Excellence Award. KPPC leads the field with their commitment to energy efficiency and demonstrates how all Americans can save energy, save money, and create a healthier environment.”

Bob Perciasepe, Acting Administrator, U.S. Environmental Protection Agency
A History of Accomplishment

With a career spanning nearly 40 years, Cam Metcalf is well known as a pioneer and a national leader in advancing pollution prevention and energy efficiency. He became the Executive Director of KPPC in 1995 and led the Center as it grew into a nationally, and internationally, known “Center of Excellence”.

Throughout his career, Cam has actively developed, delivered and evaluated pollution prevention and energy efficiency programs for industries, businesses, government agencies and organizations. As an engaging and enthusiastic teacher, Cam has helped hundreds of people, from engineering students to CEOs, learn about the importance of protecting the environment.

He served at the University of Tennessee’s Center for Industrial Services, the University of North Carolina-Asheville and the U.S. Environmental Protection Agency, where he worked as an Environmental and Physical Scientist. During his tenure with EPA, Cam assisted in drafting regulations for the treatment, storage and disposal of sewage sludge under the Clean Water Act and wrote hazardous waste guidelines that were incorporated into the Resource Conservation and Recovery Act (RCRA) in 1976.

As executive director of KPPC, Cam has overseen a number of major initiatives for the Center, including: Environmental Justice Through Pollution Prevention in 1996; the Partnership for Effective Electronics Recycling in 2000; the Kentucky Renewable Energy Consortium (KREC) in 2005; the Kentucky Energy Efficiency Program for Schools (KEEPS) in 2009 and the Kentucky Save Energy Now Program (KYSEN) in 2010.

The Center also has been successful in providing opportunities and real world experience to the students of the J.B. Speed School of Engineering through its co-op program. Under Cam’s leadership, KPPC has won many prestigious awards, including the Energy Star Partner of the Year Award in 2011 and 2012 and the “Sustained Excellence” Energy Star Award in 2013.

A Look Back as We Move Forward

Cam Metcalf, KPPC’s founding Executive Director, will be retiring in October, 2013. A look back at KPPC’s 19 year history will find that Cam has been an inseparable part of that history. Cam’s technical expertise, innovative vision and engaging leadership style have enabled the Center to gain a national reputation and become an award-winning champion of pollution prevention and environmental sustainability.

The Center will remain his legacy as we move KPPC forward in the years ahead.

Cam has served on the Boards of Directors for the National Pollution Prevention Roundtable, the Kentuckiana Certified Hazardous Materials Managers Chapter (KCHMM), the Louisville Advanced Technology Council, the Center for Renewable Energy Research and Environmental Stewardship (CRERES) and the Kentucky International Environmental Trade Initiative.

Looking back on his tenure at KPPC, Cam says that, “I’m proud of the many professional relationships we’ve developed with our clients. It is very rewarding to see these organizations, on a voluntary basis, build their own environmental management programs that help them, and ultimately all of us, protect and sustain our environment.”

As KPPC moves forward in the years ahead, the Center is dedicated to adhering to the principles of environmental sustainability, while continuing to serve the businesses, industries and people of the Commonwealth.

All of us at KPPC would like to thank Cam for his leadership – we wish him and his wife Marianna the very best.
**KPPC’s Budget – Leveraging Funds for Kentucky**

With core funding from the Kentucky Energy and Environment Cabinet’s Hazardous Waste Management Fund, KPPC provides a wide range of environmental sustainability resources and services throughout the Commonwealth.

To enhance those services and better serve our clients, the Center leverages state funding by seeking additional grants and contracts from a variety of agencies.

In fiscal year 2012-2013, KPPC spent $396,000 in core funding that provided P2 technical assistance and outreach services as well as organizational and administrative support for the Center.

In addition, KPPC also secured $972,000 in additional funds from:

<table>
<thead>
<tr>
<th>Source of Funding</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hazardous Waste Management Fund – KY Energy and Environment Cabinet</td>
<td>$396,538</td>
</tr>
<tr>
<td>Pollution Prevention Information Network (PPIN) – U.S. Environmental Protection Agency</td>
<td>$374,210</td>
</tr>
<tr>
<td>Kentucky Save Energy Now Program (KYSEN) – U.S. Department of Energy</td>
<td>$315,937</td>
</tr>
<tr>
<td>The Rural Energy for America Program (REAP) – U.S. Department of Agriculture</td>
<td>$115,525</td>
</tr>
<tr>
<td>Energy Foundation Grant</td>
<td>$45,801</td>
</tr>
<tr>
<td>Pollution Prevention Grant – U.S. Environmental Protection Agency</td>
<td>$41,392</td>
</tr>
<tr>
<td>Source Reduction Assistance Grant – U.S. Environmental Protection Agency</td>
<td>$36,181</td>
</tr>
<tr>
<td>Higher Education Fund – J.B. Speed School of Engineering University of Louisville</td>
<td>$32,564</td>
</tr>
<tr>
<td>Kentucky Institute for the Environment and Sustainable Development</td>
<td>$10,674</td>
</tr>
</tbody>
</table>

Total KPPC Budget for 2012-2013 ........................................ $1,368,822

Since KPPC began in 1994, the Center has received nearly $7 million in core funding and has successfully leveraged that funding to receive an additional $23.9 million from state and federal agencies through grants and appropriations.

---

Mr. Douglas C. Griffin  
Board Chairman  
Environmental Engineer  
Kenvirons, Inc.

Mr. John Clay, Sr.  
At-Large Agricultural Producer

Mr. Ray Dailey  
Industrial Community  
NewPage Corporation

Dr. Neville G. Pinto  
Dean, J.B. Speed School of Engineering  
University of Louisville

Dr. John Y. Walz  
Dean, College of Engineering  
University of Kentucky

Ms. Joyce Evans  
At-Large Public Center for Biomedical Engineering  
University of Kentucky

Mr. Steve Dale  
Environmental Protection Community

Mr. David Pedigo  
At-Large Industrial Facility  
Akebono USA

Mr. Aaron Keatley  
Kentucky Energy and Environment Cabinet  
Kentucky Division of Compliance Assistance

Mr. Kevin Murphy  
Local Government  
Calvert City Water & Sewer System