25th Annual Kansas City Regional
MATHEMATICS TECHNOLOGY EXPO

Schedule of Events and Abstracts

University of Missouri – Kansas City, Kansas City, MO
Friday and Saturday, October 2 and 3, 2015

Login Account Names and Passwords for EXPO 2015, valid October 2 – 3, 2015

Wireless Access Anywhere for EXPO participants and speakers:

- For help on Friday only: UMKC Call Center at (816) 235-2000
- Username: umkc-mathexpo
- Password: R00mathEx [the 00 are zeroes, not capital letters]

ILE (Ideal Learning Environment) Station Access in talk rooms, for EXPO speakers only:

- Username: umkc-mathexpo
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25th Annual Kansas City Regional
MATHEMATICS TECHNOLOGY EXPO

Thank you!

We thank **UMKC** for their generous hospitality in providing the facilities for the EXPO. They provided the lecture hall, classrooms, and exhibitor areas, as well as computers, Internet connections, and audiovisual equipment. We thank the UMKC students and faculty, who have given up their classrooms!

We thank the following individuals at UMKC for making the EXPO possible:

- Elam O'Renick, Manager, Desktop Support, UMKC IS, for wireless and ILE access accounts, and ILE room technical help.
- Marcia Roberts, UMKC Room Scheduling, for all the room reservations.
- Tonya Crawford, Senior Manuscript Specialist, UMKC Archives, for information on the Haag Hall murals.
- All the UMKC undergraduate and graduate students who are volunteering their time on the two days of the EXPO.

We thank **Johnson County Community College** for funding paper and printing for EXPO mailings, the program booklet, EXPO packet information, and evaluations.

Registration in the 3rd floor lobby of Haag Hall

Friday, 8:00 am – 2:00 pm, and Saturday, 8:00 am – 11:00 am

Complimentary Continental Breakfasts

Continental breakfasts are available Friday and Saturday mornings in the registration area, compliments of Cerner Corporation and of Honeywell Federal Manufacturing and Technologies.

Lunches

The lunches are included as part of your registration fee. UMKC's FaCET (Faculty Center for Excellence in Teaching) provided a generous donation toward the lunches.

Handouts

Extra handouts from sessions should be placed at the Handout table on the 3rd floor lobby of Haag Hall, and will be available to EXPO participants at that location.

Textbook, Hardware, and Software Exhibitors

Friday, 8:00 am – 2:45 pm; Saturday, 8:00 am – 1:00 pm
Cengage, Honeywell,
Thinkwell, and MAA Books
(Not all exhibitors will be present on Saturday.)

Door Prizes

We thank the following companies that have donated door prizes to be given away following the Keynote Address and the Invited Address:
Design Science, Hawkes, and Macmillan

FRIDAY, October 2, 2015

Welcome and Introductions

Friday, 8:30 am
Haag 301

Richard Gill, 2015 EXPO Group Chair, Blue Valley High School, Stilwell, KS
Dr. Michael Kruger, Professor of Physics and Astronomy, and Associate Dean of Arts and Sciences, UMKC

SESSION 1 – Keynote Address

Friday, 8:30 am – 9:50 am
Haag 301

Rethinking Class Time Using Accessible Technology

Robert Talbert

Associate Professor of Mathematics, Grand Valley State University, Allendale, Michigan

The two most valuable resources mathematics students possess are people, and the time and space to work with other people to make sense of mathematical ideas. Without social interactions, students are left to fend for themselves -- often with subpar results. Despite this fact, the traditional model of academic classes uses class time only to transmit information in an instructor-centered fashion, depriving students of that valuable time for grappling with difficult ideas with each other and with the instructor. But there is good news: We no longer live under a scarcity model of information. In this talk, we'll explore what "class time" can look like in a world where freely-available information and accessible tools for sense-making in mathematics are the norm.

Door prizes will be awarded directly following this address.

SESSION 2 – *Friday, 10:00 am*

2A.
Haag 301
10:00 – 10:45 am

Mind Mapping Software to Increase Conceptual Understanding of Calculus

Nora Strasser, Friends University, Wichita, KS

Many students struggle with the understanding of concepts in calculus. The students can easily use procedures, but lack the understanding of the concepts and the connections of those concepts. Mind mapping apps and software is available that allow students to not only demonstrate their understanding of the connections between topics, but also increase that understanding. The iPad app Mindomo and its desktop counterpart will be demonstrated along with how this is used in the calculus classroom. This software is easy to use and does not require students to have extensive computer skills.

Presider: Lori McCune, Missouri Western State University, St. Joseph, MO

2B.
Haag 315
10:00 – 10:45 am

Wind Energy Activities in the Mathematics Classroom

Scott Keltner, Eudora High School, Eudora, KS

Kansas holds great wind energy potential--not just as and industry and job market, but also in terms of classroom learning experiences. This session will share a variety of wind energy lessons, resources, and activities that aim to take advantage of the wind resources our state possesses.

Presider: TBA

2C.
Haag 313
10:00 – 10:45 am

Make Students in the Flipped Classroom Accountable with EDpuzzle

Richard T. Gill, Blue Valley High School, Stilwell, KS

EDpuzzle is a website where educators can post videos that students will watch outside of class in preparation for activities in class. To make students accountable for watching the videos, due dates can be assigned for each video, quiz questions can be embedded in the videos to make sure the student is actually watching the video, and skipping through the video can be prevented. This presentation will demonstrate how to accomplish these things, as well as how the site tracks the progress of your students. As time allows, there can also be discussion of how using EDpuzzle increased student performance.

Presider: Chris Imm, Johnson County Community College, Overland Park, KS

2D.
Haag 201
10:00 – 10:45 am

The Mathematics of Bitcoin

Sophia Crossen, LRS Consulting Services, Overland Park, KS

Bitcoin is a digital currency that is slowly gaining popularity around the globe in online and real life transactions. The basic structure of a bitcoin transaction will be the framework for exploring the mathematics behind keeping bitcoins secure. We'll look at some public key encryption algorithms and the SHA256 hash function.

Presider: Sarah Jackson, Pratt Community College, Pratt, KS

SESSION 3

3A.
Haag 2nd and 3rd floor Lobbies
10:45 – 11:30 am

Visit with Our Exhibitors

Time is provided especially for EXPO participants to visit the Exhibitors and the MAA book sale. The Exhibitors Area will also be open at other times during the EXPO.

3B.
Linda Hall Library
11:00 am –
12:30 pm

Rare and Historical Mathematics Books at Linda Hall Library

Cindy Rogers, Librarian for History of Science, Linda Hall Library

This is a special opportunity for hands-on viewing of over a dozen historical mathematics books. It is not a tour. Examples: the 1482 first printed copy of Euclid's *Elements*, a 1637 copy of Descartes' *Discours*, the 1696 first calculus textbook of L'Hopital, books by Newton, Agnesi, Galileo, and more. A list is provided in your registration packet. This is the only Linda Hall Library session today. Note that this opportunity begins in the middle of section 3, fills section 4, and overlaps the beginning of lunch.

SESSION 4 – *Friday, 11:30 am*

4A.
Haag 301
11:30 am –
12:15 pm

Lightning Talks (short 5 – 7 minute talks)
Presider: Richard Gill, Blue Valley High School, Stilwell, KS

Wabbitemu: A Smartphone TI Calculator Emulator
Richard Gill, Blue Valley High School, Stilwell, KS
You don't really need to carry a TI graphing calculator anymore. Your Android smartphone can do it all with the Wabbitemu app. The presenter will provide a quick demonstration of the app and where to find it. This app is free to download and easy to use. Sorry, the app is not available for iPhones.

Using Interactive Figures in the Mathematics Classroom
David Miller, Black Hawk College, Dubuque, IA
Interactive figures are widely available from various sources and can add value to your classroom teaching. The talk will focus on creating interactive figures in Mathematica as well as ways to utilize the figures in the classroom.

Redesign of Developmental Math Courses using MyLabsPlus at KCKCC
Deborah Detrick, Kansas City Kansas Community College, Kansas City, KS
For the past three years, KCKCC has implemented a redesign of their developmental math courses (basic mathematics, elementary algebra, and intermediate algebra). This redesign involves approximately 1000 students and 25 faculty members. Courses that had been in a traditional, lecture format were switched to an emporium-based module using MyLabsPlus courseware from Pearson. Some of the challenges that have been addressed are: limited technology skills of participants, instructors switching to the role of facilitator, and attitudes towards the changing landscape of education. While significant changes have been made to aspects of this redesign, the emporium approach has remained intact. Technology skills of instructors and students have grown, course drift has been significantly reduced, and the ease of transitioning from one redesign course to the next is appreciated by all. Take a look at our redesign model and see what you can apply to your own redesign.

4B.
Haag 315
11:30 am –
12:15 pm

Symmetry, Frieze Groups, Wallpaper Groups, and iPads
Cynthia Huffman, Pittsburg State University, Pittsburg, KS
The speaker recently taught a course on Applied Abstract Algebra that included a look at the 7 frieze groups and the 17 wallpaper groups. We'll see how the students were able to use iPads to investigate symmetry and analyze border and wallpaper examples. Although the students in the course were more advanced, many of the concepts are also appropriate for middle school and high school students.
Presider: Nick Haverhals, Avila University, Kansas City, MO

4C.
Haag 313
11:30 am – 12:15 pm

Guidelines for Creation and Use of Instructional Videos as a Component of the Flipped Classroom

John T. Sieben, Texas Lutheran University, Seguin, TX

I will offer practical advice for producing short instructional videos, designing in-class activities and projects, evaluating students' work, and motivating students to be participants in all learning components of a flipped classroom. In response to the challenges of incorporating technology into the classroom a colleague and I began experimenting with inverted classrooms. Building a library of short Math videos is the usual notion of a first step in creating a flipped classroom and will be the first topic of discussion in this presentation. I will share my experiences in using various platforms (iPads or PCs with a graphics pad) to produce instructional videos. In the second part of this talk, I will focus on the most important component of a successful flipped classroom, namely the in-class activities such as group and individual projects. In addition I will offer examples of management techniques that can be used to motivate the student and to assess the students' progress. The presentation will end with a discussion of the evaluation of students' work in a flipped classroom, specifically the assessment of individual and group work.

Presider: Mark Hunter, McPherson College, McPherson, KS

4D.
Haag 201
11:30 am – 12:15 pm

Voluminous Vessel: A 3D Printing Project for Integral Calculus

Rob Grondahl & Brenda Edmonds, Johnson County Community College, Overland Park, KS

JCCC instructors adapted a Prairie State College project for second semester calculus students that employs finding surfaces and solids of revolution. Students create a drinking glass – the voluminous vessel – by rotating functions about an axis. There are constraints on the height, width, and thickness at the rim. The functions must be continuous and have non-constant derivatives, but students may be creative in how they design within these constraints. Students demonstrate their integration prowess by calculating the volume of material needed, the volume of liquid the vessel will hold, and the surface area of the outside of the vessel. Using Mathematica on a parametrization of their function, students can produce a stereolithographic file. The instructor adds a ring to the rim and a disk to the base, and the drafting department's 3D printer creates the final product. The math department now has four vessels in its gallery. A rubric for grading this project will also be shared.

Presider: Natalya Malakhova, Johnson County Community College, Overland Park, KS

Friday, 12:15 pm – 1:30 pm

LUNCH – Swinney Gym North Lobby

SESSION 5 – ***Friday, 1:30 pm***

5A.
Haag 301
1:30 – 2:15 pm

Blogs, Wikis, and Tweets (Oh My!): Online Social-Collaborative Writing in Mathematics Major Courses

Andrew Cooper, North Carolina State University, Raleigh, NC

Social media is an educational tool in use across a broad spectrum of discipline, from primary to graduate education--but it has yet to catch on in mathematics major courses. In this talk, I will discuss the use of online collaborative writing in the context of a real analysis course and a transitions course. I will outline the purposes and potential benefits of using tools like blogs, wikis, and tweets in such courses. I will also discuss my personal experiences using online social-collaborative writing, including successes as well as some pitfalls to be avoided. I'll also spend some time on the backend, mostly to demonstrate that the effort and technical expertise required to use these tools is quite modest.

Presider: Nancy English, Fontbonne University, St. Louis MO

5B.
Haag 315
1:30 – 2:15 pm

Collaborative Math Technology Tools to Relate Height and Wingspan

Scott Keltner, Eudora High School, Eudora, KS

This session will focus on collaborative technology tools that are useful in the math classroom. Examples include Google Sheets and Drive, Desmos Online Graphing Calculator, Goo.gl URL Shortener, as well as the TI-84 and TI-Nspire graphing calculators. Attendees will use a sample lesson finding the relationship between their height and wingspan to demonstrate these technology tools.

Presider: Nick Haverhals, Avila University, Kansas City, MO

5C.
Haag 313
1:30 – 2:15 pm

Flipping the Way You Teach Mathematics!

Laura Brogdon, Shawnee Mission West High School, Overland Park, KS, and
Leah Cogswell, Olathe Northwest High School, Olathe, KS

Are you tired of teaching the traditional way? Do you want to try a new method that will increase the confidence level and motivation of your students, while also implementing technology into your classroom? Let's get flipping!

Technology is taking over the world and 21st century learners cannot get enough of it. It's time to flip things around and increase student engagement, while differentiating the content and implementing technology in the math classroom. In this presentation you will learn what the flipped classroom is, the logistics of how it works, and be able to start brainstorming how you will implement flipping in your math classroom.

Presider: Chris Imm, Johnson County Community College, Overland Park, KS

5D.
Haag 201
1:30 – 2:15 pm

WeBWorK: An Open-Source Online Homework System, Part 1 (Overview)

Joseph Morse, Winnetonka High School, Kansas City, MO

How would you like an "assistant" in the classroom to provide students feedback on their progress on homework assignments and grade the homework and tests for you? How would you like this "assistant" to gather statistics so you view statistics from either a student view or a class view? How would you like this "assistant" to cost you little or no cost? WeBWorK is an open sourced browser based mathematics homework system that provides teachers with that classroom assistant. WeBWorK is supported by the MAA and the NSF and has a National Problem Library of over 24,000 homework problems. Part 1 of this presentation will provide an overview of WeBWorK, and how it can modify your classroom teaching providing many benefits to students, implement CSSS and lower teacher workload/stress. Supported courses include algebra II, pre-calculus, college algebra, discrete mathematics, probability and statistics, single and multivariable calculus, differential equations, linear algebra and complex analysis.

Presider: Lori Johnson Morse, Mathhead Tutoring, Kansas City, MO

SESSION 6 – *Friday, 2:30 pm*

6A.
Haag 301
2:30 – 3:15 pm

Using a Course Wiki to Present Mathematics

Lori McCune, Missouri Western State University, St. Joseph, MO

In this talk, I will discuss the use of the free online program Wikidot to create a course wiki for my Abstract Algebra and Linear Algebra courses. The students maintained a wiki page for both courses on which they posted homework solutions, definitions, and theorems. I will discuss how to create a wiki and how to display mathematics using LaTeX in the wiki. I will also discuss how the wiki was used in my courses and how it might be implemented in other courses as well.

Presider: James Leininger, MidAmerica Nazarene University, Olathe, KS

6B.
Haag 315
2:30 – 3:15 pm

Online Resources for Mathematics Assessment and Instruction (Edmodo, Quizizz, Socrative, and More)
Jennifer Novogoratz, Paseo Academy, Kansas City, MO
There is a wealth of free resources for teachers available on the internet but it is frustrating to integrate a new resource only to find out a week or two later that it is not going to work for your classroom. Save yourself some headache and come learn about my trials and tribulations from integrating online resources in my high school classroom. Learn how you can utilize MathXL, Edmodo, Quizizz, Socrative, MasteryConnect, Khan Academy and more in your high school or college courses. Learn from my mistakes and frustrations to be able to better serve your students in your classroom setting regardless of traditional or flipped instruction.
Presider: Steven J. Wilson, Johnson County Community College, Overland Park, KS

6C.
Haag 313
2:30 – 3:15 pm

Flipping Calculus and Engaging Students: Technology, Pedagogy and Lessons Learned
Larissa B. Schroeder & Jean McGivney-Burelle, University of Hartford, West Hartford, CT
In this session, we will use the materials developed by members of the University of Hartford Mathematics Department for the NSF funded Flipping Calculus project to frame a discussion about what students do before, during and after class in our flipped Calculus I courses. In particular, we will discuss the structure of our flipped Calculus classes, the technology used to support this pedagogy, strategies for making class interactive, practical ideas and lessons learned from our 3 years of implementation. In addition, we will discuss the results from our studies of student performance and student perceptions.
Presider: Sarah Jackson, Pratt Community College, Pratt, KS

6D.
Haag 201
2:30 – 3:15 pm

WeBWorK: An Open-Source Online Homework System, Part 2 (Hands-On)
Joseph Morse, Winnetonka High School, Kansas City, MO
If you already know what WeBWorK can do for you (or you attended Part 1 of this presentation), you might benefit from this hands-on workshop demonstrating how to use WeBWorK, set up a class and the power/features of this system. **Participants should bring their own laptop.**
Presider: Lori Johnson Morse, Mathhead Tutoring, Kansas City, MO

POST-SESSIONS *(A, B, and C) Friday, 3:30 pm*

P-S A.
Haag 301
3:30 pm

MAA Project NExT – Fall Meeting
Organized by Samuel Chamberlin, Park University, Parkville, MO,
and Azadeh Rafizadeh, William Jewell College, Liberty, MO

P-S B.
Haag 315
3:30 pm

MOMATYC Meeting
(Interested KAMATYC and MOMATYC participants will go to supper together after the meetings.)

P-S C.
Haag 313
3:30 pm

KAMATYC Meeting
(Interested KAMATYC and MOMATYC participants will go to supper together after the meetings.)

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SATURDAY, October 3, 2015

Welcome and Introductions

Saturday, 8:30 am
Haag 301
Richard Gill, 2015 EXPO Group Chair, Blue Valley High School, Stilwell, KS

SESSION 7 – Invited Address

Saturday, 8:30 am – 9:50 am
Haag 301

3D Printing in Mathematics

Henry Segerman

Assistant Professor of Mathematics, Oklahoma State University, Stillwater, Oklahoma

"3D printing" is a term that covers a number of closely related technologies that allow for unprecedented freedom in the design and construction of physical objects, direct from computer models. In the last few years 3D printing has rapidly become much more accessible and affordable to universities, high schools, and the general public.

At this early stage, the use of 3D printers in mathematics education is still very experimental but it clearly has great potential. I'll talk about three broad topics. First, the technology of 3D printing itself and how to get started in using it. Second, how mathematicians are using 3D printing for visualization and the production of manipulatives for use in the classroom, for outreach and mathematical art, and in their research. Third, the possibilities for using 3D printing as an integral part of a mathematics course, having students learn to produce their own 3D printed models. 3D printing is an excellent medium for project work in mathematics, giving students a highly motivating experience in which skills are consolidated and can be tested as a cohesive whole.

Door prizes will be awarded directly following this address.

SESSION 8 – *Saturday, 10:00 am*

Saturday, 10:00 am – 10:45 am

8A.
Haag 301
10:00 – 10:45 am

Designing Class Time Using Accessible Technology

Robert Talbert, Grand Valley State University, Allendale, MI

In the keynote address, we looked at ways that free and cheap technology can be used to transform how we conceive and use "class time" and how student work can be changed for the better. In this follow-up talk, we'll get down to business by choosing one or more of the technologies mentioned in the keynote and working together to create an effective pre-class and in-class activity that uses that technology to help students learn deeply and independently. This session will be driven by participants -- you'll choose the subject, the lesson, and the technology and we'll work with your choices.

Presider: Sarah Jackson, Pratt Community College, Pratt, KS

8B.
Haag 313
10:00 – 11:45 am

Interactive Graphing Problems in WeBWorK via JavaScript
Glenn Rice, Missouri Western State University, St. Joseph, MO
I will share methods to integrate JavaScript into problems in MAA's WeBWorK, which is an open-source online homework system. The primary objective is to create interactive graphing problems similar to those available in many proprietary online homework systems. Basic understanding of programming, particularly knowledge of JavaScript and Perl, will enhance understanding of this presentation.
Presider: Mark Hunter, McPherson College, McPherson, KS

8C.
Haag 315
10:00 – 10:45 am

Using Videos Created by the Teacher and Students to Enhance the Learning of Mathematics
Dan Richner, Warrensburg High School, Warrensburg, MO
I plan to present the variety of ways that videos I have created have changed the way teaching and learning are done in my classroom. I will discuss assessment, projects, instruction, and homework helps all provided by video. The techniques discussed and demonstrated have been used in special education and honors classes. The technology skills range from using a video camera to editing short videos into a story to solve problems. I will show examples of both student work and my own creations.
Presider: Nancy English, Fontbonne University, St. Louis MO

SESSION 9 – *Saturday, 11:00 am*

9A.
Haag 301
11:00 – 11:45 am

Using Mathematica and Rhinoceros to Produce 3D Printed Mathematical Models
Henry Segerman, Oklahoma State University, Stillwater, OK
This workshop will be a hands-on introduction to producing physical 3D printed mathematical models using computer software. 3D printing is rapidly becoming a very affordable way to produce physical objects, for use in outreach, teaching or research. In addition to being excellent visualization aids, physical objects go further, allowing for a tactile understanding. Depending on the interests of the participants, we will use Mathematica, the 3D design program "Rhinoceros", and/or the Python scripting interface for Rhinoceros to produce 3D files ready to be sent to a 3D printer. The workshop is based in part on this article: http://math.okstate.edu/people/segerman/papers/3d_printed_visualisation.pdf.

Participants should bring their laptops, ideally with Mathematica and/or Rhinoceros already installed. A free trial of Rhinoceros is available at http://www.rhino3d.com/download/. The workshop materials are available at http://math.okstate.edu/people/segerman/talks/3d_printing_workshop_files.zip .
Presider: Chad Wiley, Emporia State University, Emporia, KS

9B.
Haag 313
11:00 – 11:45 am

PreCalculus Animations with GeoGebra
Kevin W. Hopkins, Southwest Baptist University, Bolivar, MO
GeoGebra is free, web-based software that does dynamic graphing. This allows for animations that illustrate topics in PreCalculus. This talk shows animations and instruction on how to create more. Come with ideas for dynamic illustrations you would like to create. Some demonstration of finding materials on GeoGebraTube will also be included.
Presider: Mark Hunter, McPherson College, McPherson, KS

9C.
Haag 315
11:00 – 11:45 am

Using Screencast-O-Matic as a First Time Flipper
Ian Young, Grandview High School, Grandview, MO
This is for a first time flipper, someone thinking about Flipping, or someone who would like to integrate teacher-made instructional videos as something to switch things up every now and then. These videos could be used to teach lessons, review for a test, or simply as a support tool. **This course will be primarily using the Free version of Screencast-O-Matic, I recommend you download it before the class.** This session is for teachers from Pre-Algebra to AP Calculus and from the first timers to the tech savvy.
Presider: Chris Imm, Johnson County Community College, Overland Park, KS

Saturday, 11:45 am – 1:00 pm

LUNCH and Brainstorming – Swinney Gym North Lobby.

As We Sail Through the Digital Archipelago, Have We Considered Our Course?
Cell phones, tablets, iPads, TI-Nspires, Desmos, Mathematica, 3D printers, videos, reliable internet access, … Some students have them, some don't. Some teachers use them, some won't. Some schools allow them, some won't. Remedial vs. AP courses in the high school; developmental vs. transfer courses in the community college; service courses vs. major courses in the university. Loose, discovery, free-flowing, inquiry-based courses vs. highly structured courses with multiple regular assessments. The rich mathematics technology ecosystem of 2015 can support any one of these scenarios in unprecedented variety and flexibility, but have we lost sight of our destination? Are we making technology choices based on the purpose and goals of each course? In short, what are our goals in teaching, and how can we make sure that our technology choices support these goals?

We hope that you enjoyed the EXPO. If you have comments that you would like to share, please e-mail any of the committee members as listed on the next page.

www.kcmathtechexpo.org

The 2015 EXPO Group

- **Richard Gill** (EXPO Chair 2004 – 2008, 2014 – 2015; and Special Speaker Contact), rgill@bluevalleyk12.org, Blue Valley High School, Stilwell, KS

- **Richard Delaware** (Financial Secretary and Site Coordinator; EXPO Chair 1993 & 1994), delawarer@umkc.edu, University of Missouri – Kansas City, Kansas City, MO

- **Lisa Erickson** (Presiders), eeErickson@mnu.edu, MidAmerica Nazarene University, Olathe, KS

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- **Nick Haverhals** (Exhibitors), nick.haverhals@avila.edu, Avila University, Kansas City, MO

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Events/Activities in Kansas City: www.kansascity.com