

The Power **II** Be Your Best -- II Infinitum -- KansasFest 2013

APPLE II FOREVER

# kansasfest

[WWW.KANSASFEST.ORG](http://WWW.KANSASFEST.ORG)

JULY 23-28, 2013  
ROCKHURST UNIVERSITY  
KANSAS CITY, MISSOURI



Welcome to Rockhurst University, and KansasFest 2013!

# The Power [C Be Your Best -- II Infinitum -- KansasFest 2013

Welcome to Rockhurst & KFest 2013!

Thank YOU for participating and supporting KansasFest 2013 - Without YOUR support we could not do this once again. Everyone helps. Thank you again!

Online Schedule:

For the latest revisions, you can find this schedule online at: <http://www.kansasfest.org/calendar/>

Meals -- All meals are in the Rockhurst Cafeteria, Massman Hall.

Breakfast:	0730 - 0830
Lunch:	1200 - 1300
Dinner:	1700 - 1800

Telephones, Towels and Checkout

If you brought a cellular telephone with you, you can hook it up in your room to the electric outlet, or turn it off and shove it in a drawer, to not be bothered. You will not need to ask the staff for the phone number, as you should already know yours. (A blast from KFest Pasts). Please stack up your linens at checkout and return them to the collection cart whose location will be pointed out during the week. We are in charge of the linens ourselves this year and they need to be handled separately. Checkout is by 11AM or so on Sunday morning. Please do not loose any key cards. They cost \$100 to replace. We did good last year and returned them all. Lets show the university students how to do it.

## Legend:

<b>CF</b>	Cafeteria - Massman Hall
<b>CH</b>	Corcoran Hall (Lobby area)
<b>KS</b>	Kansas City Area
<b>MCI</b>	Kansas City International Airport / Mid Continent International
<b>MH</b>	Massman Hall

## Internet Access:

**Wireless** - After connecting to a Rockhurst SSID, you will need to authenticate. Open any web browser and enter:

Username:	ruEvent4	(case-sensitive)
Password:	RuLan13	(with a capital R & L)
Realm:	LocalDB	(Select from dropdown list)

**Wired connections**, such as the computer lab, to print boarding passes, UPS/Fedex airbills/labels, etc.

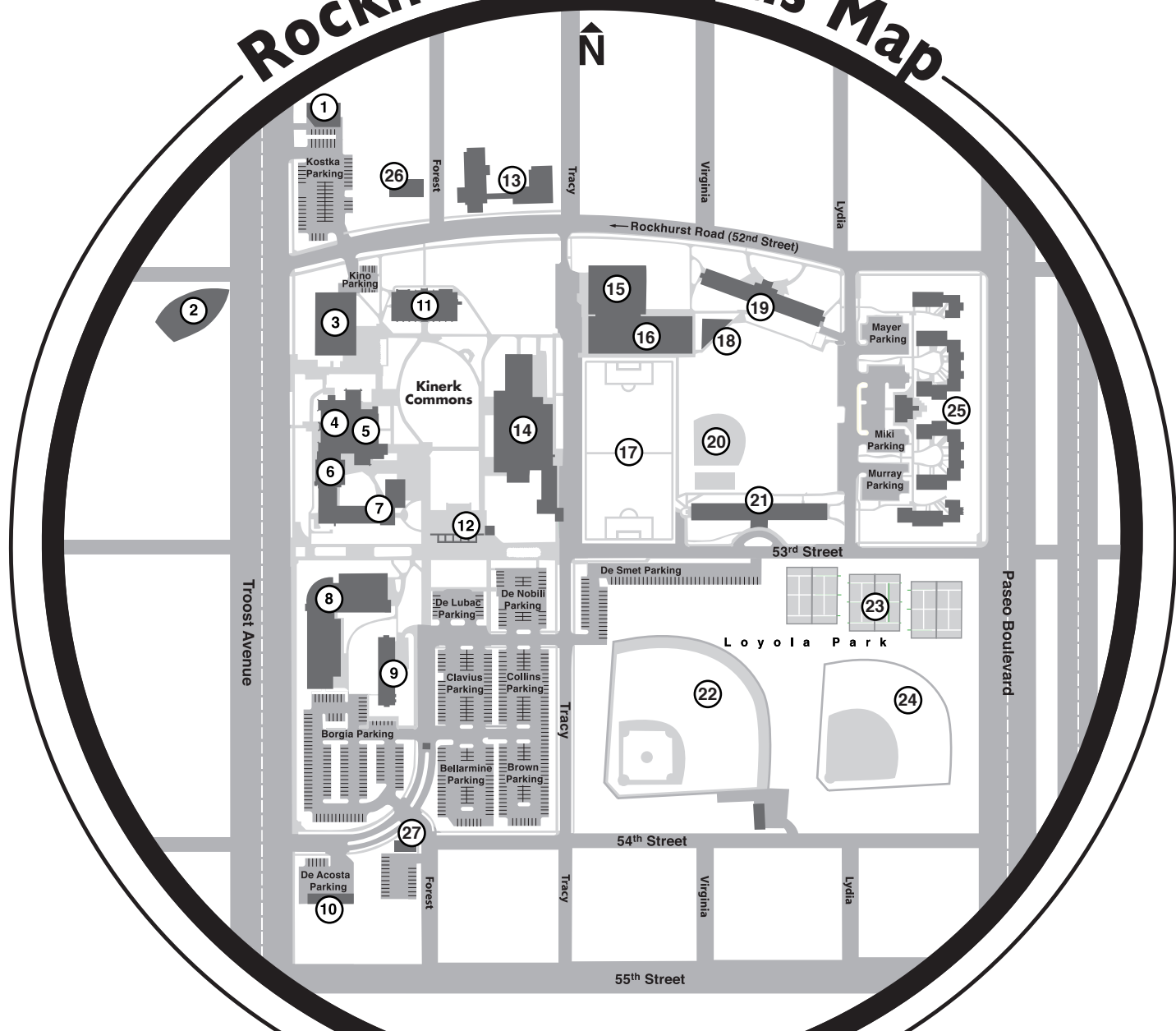
Campus Lab computers

Username:	ruEvent4	(case-sensitive)
Password:	#H@wks2013!	(case-sensitive)

For the latest revision, this schedule is available online at <http://www.kansasfest.org/calendar/>

July 27th - 28th, 2013 - Rockhurst University - Kansas City, MO

# Rockhurst Campus Map



- |  |   |
|--|---|
| ① Physical Plant Operations            | ⑮ Mason-Halpin Fieldhouse                   |
| ② St. Francis Xavier Church            | ⑯ Physical Education and Convocation Center |
| ③ Greenlease Library                   | ⑰ Bourke Field                              |
| ④ Mabee Theater                        | ⑱ Student Activities Hall                   |
| ⑤ Sedgwick Hall                        | ⑲ Corcoran Residence Hall                   |
| ⑥ Greenlease Gallery                   | ⑳ Lower Bourke Field                        |
| ⑦ Van Ackeren Hall                     | ㉑ Xavier-Loyola Residence Hall              |
| ⑧ Science Center                       | ㉒ Baseball Field                            |
| ⑨ McGee Residence Hall                 | ㉓ Tennis Courts                             |
| ⑩ Community Center and Campus Security | ㉔ Softball Field                            |
| ⑪ Conway Hall                          | ㉕ Town House Village                        |
| ⑫ Bell Tower and Pergola               | ㉖ Campus Ministry Center                    |
| ⑬ Claver Jesuit Residence              | ㉗ Public Relations & Marketing              |
| ⑭ Massman Hall                         |   |

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## Online Session Interaction Tools, and Schedule Aids:

### BackChan.nl

Have a question or a comment about the current session? Wondering what others are saying? Use your wireless device to visit <http://kfest.backchan.nl/> where you can anonymously submit questions and vote other audience members' submissions up or down. Presenters will review this channel to address what's on their audience's mind.

### Guidebooks.app

Wondering who's selling what or what session is when? Get the KansasFest schedule, Rockhurst map, exhibitor list, and more in one convenient package on your iOS device. Download the free Guidebooks app at <http://www.kansasfest.org/guidebook>

### Event Schedule Online

As usual, the schedule is available online, and should be periodically checked for updates/changes/additions, etc. You know how things change..

<http://www.kansasfest.org/calendar/>

### Rockhurst Campus Map

A Campus map with notations specific to KFest activities

<http://tinyurl.com/KFestRockhurst>





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Address / Phone Information for various venues and locations:

## **Kansas City International Airport - KMCI**

601 Brasilia Avenue

Kansas City, MO

(816) 243-5237

<http://www.flykci.com>

## **Flight Tracking:**

By airline, airport, or aircraft ID:

<http://www.flightaware.com>

## **Rockhurst University**

1100 Rockhurst Road

Kansas City, MO 64110

(816) 501-4000

<http://www.rockhurst.edu>

**Jack Stack** - Tuesday evening meal, carpool from Rockhurst.

101 W. 22 St

Kansas City, MO 64108

(816) 472-7427

<http://www.jackstackbbq.com/info.asp?ii=12>

**Lidia's** - Saturday evening meal, carpool from Rockhurst.

101 West 22nd Street

Kansas City, MO 64108

(816) 221-3722

<http://www.lidias-kc.com/>

**Apple Store** - Optional group outing, carpool from Rockhurst.

4529 West 117th Street

Suite #283

Leawood, KS 66209

(913) 234-9800

<http://www.apple.com/retail/leawood>

**AMC Ward Parkway** - Saturday Night Movie, carpool from Rockhurst.

8600 Ward Parkway

Kansas City, MO 64114

(888) 262-4386

<http://www.amcentertainment.com/WardParkway>

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Officially scheduled events are open only to registered attendees excluding Saturday's events which are open to the public. Peikop Endropov will be on the watch at other times. Visitors are permitted at times other than officially scheduled events, and are generally not permitted to be in the vicinity of scheduled events.

KEY:           CF -   CAFETERIA - MASSMAN HALL  
                CR -   CORCORAN HALL  
                JS -   JACK STACK RESTAURANT  
                KC -   KANSAS CITY AIRPORT  
                KS -   KANSAS CITY  
                MH -   MASSMAN HALL

=====  
Tuesday, July 23  
=====

0800-	KC	Peikop Endropov - ride sharing to/from airport
1100-1600	CR	Registration
1830-2100	JS	Jack Stack Dinner Outing

=====  
Wednesday, July 24  
=====

0700-	CR	HackFest 2013 Begins
0730-0830	CF	Breakfast at Rockhurst
0900-1230	CR	Open Forum & Wind up the air conditioning, stock the coolers, settle in and meet your neighbors. Decorate your door for the door contest!
1200-1300	CR	The Great KFest Kookout - Kirk Mitchell, head kook  Enjoy the BBQ and get to know your fellow Apple II nuts.
1300-1330	CR	Late Registration at Corcoran Hall Computer setup, get your Internet fix. Turn on the AC and fill the ice chests. If you didn't yet, you will now. Quick run to the store!

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- |           |    |  |
|-----------|----|--|
| 1330-1345 | CR | Welcome to KFest<br>Introduction of committee members; tips and tricks for having a fantastic week |
| 1345-1545 | CR | KansasFest 2013 Keynote<br>- Randy Wigginton   |

In 1978, Wigginton was a brilliant young high school student working alongside Apple co-founder Wozniak. Wigginton was an early member of the famous Homebrew Computer Club, often caught rides to club meetings with Wozniak, and was there for the unveiling of the Apple I. At age 14, Wigginton started writing software for the Apple I. He assisted with the early design of and software for the Apple II and manned the booth at the West Coast Computer Faire introducing the Apple II. He was part of the all-night coding session in January 1978 that allowed Apple to introduce a working disk drive the following day at the Consumer Electronics Show. Later that year, Wigginton adapted Microsoft BASIC to become Applesoft BASIC and wrote the RWTS (Read/Write Track/Sector) software routines critical to the operation of Apple DOS and the new disk drive. The MacWrite software was among Wigginton's contributions to the company beyond the Apple II. Wigginton continues to work in the computer industry today, currently with Square.

- |           |    |   |
|-----------|----|---|
| 1600-1645 | CR | Session - Sweet16: From Getting Started to Getting Awesome<br>- Eric Shepherd |
|-----------|----|---|

I'll show how to use Sweet16, the Apple IIgs emulator, from getting initially set up and running to advanced capabilities of the software. Learn how to get and install your ROM image, where to get disk images and how to install GS/OS onto a virtual hard drive, and start it up. Learn about useful configuration options and all the power user features that you may never have noticed.

- |           |    |                                       |
|-----------|----|---------------------------------------|
| 1700-1800 | CF | Dinner at Rockhurst                   |
| 1830-1930 | CR | Session - Today in iOS<br>- Rob Walch |

Rob Walch of Today in iOS podcast joins us for a look at tips, tricks, and the latest in Apple's iOS and related hardware.

- |           |    |  |
|-----------|----|--|
| 1945-2015 | CR | Session - RetroConnector<br>- Charles Mangin |
|-----------|----|--|

Charles will demonstrate his new RetroConnector kits, which allow you to use an Apple IIe or IIC keyboard with a modern computer via USB.

- |           |    |  |
|-----------|----|--|
| 2030-2130 | CR | Juiced.GS Reception - "Pizza for the Masses"<br>- sponsored by Juiced.GS, the last remaining Apple II journal in print,<br>and the Pizza Gnomes of Kansas City |
|-----------|----|--|

On the next page.. Byte the Bag ..

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2130-2300            CR            Bite the Bag - a time-honored KFest classic  
   - Geoff Weiss

How low can you go? You don't have to be Bilbo Baggins to play this game. This is something that you can really sink your teeth in. Pick up a paper bag with only one limb on the ground. The bag gets shorter and shorter in every round. Who will be crowned champion? Who will sing the soggy paper bag blues? Who will faceplant? Don't miss the fun.

2300-?                KS            Late Night Run to Steak & Shake, Jack in the Box, etc.  
   Why sleep? May occur on this night or any other.

=====  
Thursday, July 25  
=====

0730-0830            CF            Breakfast at Rockhurst

0900-0945            CR            Session - Restoring the Apple IIe - Hints and Tips  
   - Jay Graham

This session will focus on the restoration of the Apple IIe computer and its many variants. The session will include repairing broken key switches, disassembly, cleaning motherboards, expansion cards, and keyboards. It will also cover tips on repairing things that usually go wrong on the IIe; where to find parts; cleaning the case and other parts; testing and diagnostics.

1000-1100            CR            Session - Boot-tracing: A fun method of de-protecting games  
   - Martin Haye

This will be a live demonstration of "boot tracing" a copy-protected game. Starting with an un-copyable disk and an Apple II monitor prompt, we'll proceed step-by-step through the initial load of a game until we (hopefully) locate and disable its copy-protection code. Knowledge of 6502 assembly language is helpful but not required to enjoy the session.

Background: Tracing a program from boot-up forward is an adventurous way to learn how that program works. Diligent tracing will often reveal the small part of that program that prevents copying it. Copy-protection schemes might have made sense 30 years ago but now just hinder our ability to archive our aging disks. Boot tracing is a hard but sure-fire way of saving these gems from bit rot.

1115-1145            CR            Session - So what is the Raspberry Pi, anyway?  
   - Ivan Drucker

Want to take a look at the micro-micro cheaper-than-cheap desktop computer everyone's been buzzing about? Come for this intro session on the Raspberry Pi, which is quite possibly the Apple II of our time. You'll learn about what it is, what it does, and get a brief primer on its Linux operating system.

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1200-1300 CF Lunch at Rockhurst

1300-1315 CR Juiced.GS staff photo

Anyone who has contributed to Juiced.GS since our last staff photo is invited to gather for a group picture.

1330-1400 CR Session - Demos 'R' Us  
- Eric Shepherd

Sheppy unveils his latest top secret Apple IIgs project.

1415-1500 CR Session - Disk II Theory of Design and Functionality  
- Tony Diaz

Topics include: archiving and servicing the disk drive, tweaking it for working with floppy disks that are shedding magnetic particles, and more.

1515-1545 CR Session - Leveling Up in Classic RPGs the Easy Way  
- Charles Mangin

None of us has the free time or patience we once had, both of which were necessary when playing the epic role playing games of our youth. Coming back to an RPG these days can be a nostalgic trip, but frustrating, since they often require hours of hacking, questing, and dying (repeatedly) at the hands of a lower level enemy, before getting to the good parts we all remember.

Using The Bard's Tale, an Apple II emulator, and a hex editor, I will demonstrate hacking a disk image to quickly level up a party of characters, so they are ready to take on the big baddies. This demo will be specific to The Bard's Tale games, but the technique is applicable to other games and genres.

1600-1645 CR Session - Teach US Kids to Program  
- Matt Hellinger

In his article "Teach US Kids to Write Computer Programs", Douglas Rushkoff notes the following layman's analogy regarding our relationship with computers today: Programming a computer is not like being a mechanic. It is the difference between being a driver and a passenger. As a passenger, you rely on your driver to take you where you want to go and even tell you that a certain place exists.

Today, most consumers are passengers, but it wasn't always this way. The Apple II provided BASIC in ROM (no compiler needed), many hardware features were well documented, and the programmability of a computer was just as highly regarded as the breadth of software available. This presentation will examine how we got to where we are today and lessons we can take away from the Apple II that might re-enable us to take the driver's seat once again. ( <http://www.cnn.com/2012/12/10/opinion/rushkoff-code-writing/index.html> )

1700-1800 CF Dinner at Rockhurst

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1830-1915      CR      Session - Hardware-hacking innovations  
- Stephen Buggie

This session will present a variety of hardware innovations that I have developed over the years. Each will be demonstrated and discussed.

**BUGG-POWER:** This is an adaptation of IBM-style power supplies for the IIs and IIfx to eliminate low-power hassles. It was shown at the 1996 KansasFest meeting and later presented in a magazine article (Juiced GS, Fall 1996). Separate versions are used for the IIs and IIfx/II+.

**THREE DISK II ENHANCEMENTS:** The classic Disk II drive is 35 years old. It is roomy, has low-cost socketed chips on a relatively simple analog board, and is ruggedly robust. Innovations improve the drive's resale value; these were presented in my magazine article (II Alive, Summer 1996). They include: a front-panel speed adjustment knob, a three-position auto/manual write protect switch, and a front-panel bicolor green-red read-write LED lamp (Circuit designed by Jeff Hurlburt of Houston TX).

**BUGG-BRICK IIfx:** The IIfx's external power supply "brick" has an internal fuse; when the fuse blows, the brick is often discarded. On Ebay and elsewhere, there is a chronic shortage of IIfx power bricks because so many have been discarded. I will show how the brick can be sawed open, and an accessible fuse-holder installed.

**STEALTH-GS:** When the IIs was introduced, Apple offered a retro-kit to swap a IIs motherboard into a IIfx CPU casing. The retro-kit had plastic standoffs positioned in the right places to hold the motherboard away from the metal base-plate, and the metal back-panel had openings positioned correctly for the IIs sockets. My own innovation, Stealth-GS, eliminated the need for standoffs. This was presented in a magazine article (Juiced.GS, Spring 1997).

**POWER SUPPLY VOLTMETER:** What can be done when an internal power supply is scrapped? I will show my two-range custom voltmeter, used to measure the +5 volt and +12 volt lines used by the IIs and IIfx.

**MOLEX-4 PLUGS AND SOCKETS:** These can be attached to powerpoints on the IIfx motherboard, to power various accessories house in the CPU: indicator lamps, adjustable-speed fan, etc.

**FAN TRANSPLANT FOR SYSTEM SAVER IIS:** The stock fan in the Kensington System Saver is noisier and produces a weaker air flow than the fan in the System Saver IIfx; the manufacturer used a less robust fan in the GS unit as an economy measure. Transplanting the IIfx fan into the IIs System Saver quiets the rattling noise and increases the unit's air flow.

1930-2130      CR      De-Protection Workshop  
- Martin Haye

A companion hands-on workshop where participants bring their own disks and computers, and I (and hopefully some other knowledgeable volunteers) help them boot-trace the disks and de-protect them. All are welcome to participate or watch.

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Jul 11 22nd - 24th, 2013 - Parkhurst Innaretto - Kansas City, MO

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2145 CR Ryan Suenaga Memorial Krispy Kreme Night

Come enjoy some warm donuts and cold milk, as Ryan would've wanted. A donation jar will be available, with 100% of the proceeds going toward his scholarship fund.

2215-2300 CR Firefly Props  
- Brian Wiser

Journey through the world of Joss Whedon's Firefly TV series & Serenity movie, through shiny behind-the-scenes photos, personal experiences, official props, and fan-made props.

2300-? Late Night Run to Shake & Steak Run, Jack in the Box, etc.  
Why sleep? May occur on this night or any other.

=====  
Friday, July 26  
=====

0730-0830 CF Breakfast at Rockhurst

0845-0945 CR Session - Apple DOS Through GS/OS  
- Steven Wehyrich

A historical overview of Apple II data storage and operating systems, from cassette to USB.

1000-1030 CR Session - MPW IIgs Cross Development  
- Kelvin Sherlock

A brief demonstration of Apple IIgs cross development using Apple's MPW IIgs development tools.

1045-1145 CR Session - A Technical Look at the Apple ///  
- Mike Maginnis

A look at the unique technical features of the Apple ///.

1200-1300 CF Lunch at Rockhurst

1315-1400 CR Session - A2SERVER Redux: This Time, with Pi  
- Ivan Drucker

Do you want a tiny, silent, \$35 network drive for your Apple II? Wait no longer. The Raspberry Pi is here, and A2SERVER easily turns it into a file server for your Apple II computers. At this session, you'll see A2SERVER and the Raspberry Pi in action, and learn how to put it to work. If you came to the A2SERVER presentation two years ago, you'll see some cool new tricks this time!

Note: Ivan might transition from this session into the next earlier than the time listed, so make sure to be here for both!

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1400-1430      CR      Session - Apple II in the Cloud  
- Ivan Drucker

Using the VSDRIVE capability of ADTPro, I will show how even an Apple IIc can have mass storage hosted on a Raspberry Pi...or hosted on a server across the internet...even over WiFi.

1445-1530      CR      Session - Copiers, Packers and BBSes  
- Brian Wiser

A general overview of historical Disk Copiers and Packers. Copy II Plus, Locksmith and EDD were the best-known copiers, but Disk Muncher, Nibbles Away and others were also used. We all used Shrinkit, but who remembers Blu and Dalton's Disk Disintegrator? Also includes a side trip into the world of BBSs, Ascii Express and Proterm.

1545-1630      CR      Session - Talkin' about LocalTalk  
- Peter Neubauer

In 1985, computer networking, such as sharing files and printers between computers, was an expensive hodge-podge of proprietary technologies. Apple introduced AppleTalk networking to the foray alongside the original Macintosh. Support for the Apple IIe and IIgs followed. AppleTalk was uniquely low cost, about \$50 per computer, and easy to setup. For about 10 years, AppleTalk was Apple's answer to networking until the Internet with TCP/IP supplanted the technology.

I'll discuss the history of AppleTalk and dig into the technical details of LocalTalk, the foundation of AppleTalk on early Macintosh and Apple II computers. Although slow by today's standards, LocalTalk remains a thoughtfully designed, fascinating, and even potentially useful part of the Apple II.

1730-1900      MH      Dinner Banquet  
Black Tie contest, Door contest, contest contest

1900-1915      MH      KFest Group Photo

Stay in your formalwear after the banquet for the annual KansasFest group photo. Ahh, the memories!

2100-2300      CR      Late Night Gaming - Structris, Star Saga One, Artemis, Galaga

Michael Sternberg will be running a single elimination Structris competition. Andy Molloy and Mike Maginnis are planning to continue their six-player Star Saga One game from last year. Ken Gagne may headup a Galaga duel. We'll also try to get 4-6 people together to play the starship cooperative bridge simulator Artemis. Everyone is encouraged to break out their favorite Apple II games.

2300-2330      CR      OzFest Australia Linkup

This is a chance for the OzKfest & Kansasfest participants to meet'n'greet, interact, and swap anecdotes about what has been happening at each conference over video chat.

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2330-? Late Night Ride to Steak & Shake, Jack in the Box or just get lost somewhere in Kansas City. Why sleep? You can do that tomorrow.

=====  
Saturday, July 27  
=====

0730-0830 CF Breakfast at Rockhurst

0845-0915 CR Juiced.GS Staff Meeting (only for staff members)  
- Ken Gagne

Juiced.GS staff members pose for a photo at every KansasFest, but we never actually talk about the magazine. Let's take this rare opportunity to sit down together and review what's working, what isn't, and what the publication will look like in the coming years.

0930-1015 CR Session - Run Your Routine From Anywhere  
- Ivan Drucker

Learn techniques for making your 6502 routines able to run from any location in memory without self-modifying code! You'll learn cool moves like how to call a subroutine without knowing its exact address, how to stash stuff in a safe zero page locations, and how to get the most the most from the V flag. The source code for NuInput will be reviewed as an example.

1030-1145 CR Session - Handmade Floppy Sleeves  
- Daniel Kruszyna & Melissa Barron

Attendees will learn to, cut, fold, and glue their own 5.25" floppy sleeves. The session will start with a short instructional section and then continue with a workshop. We will provide tools for attendees to share and some basic cardstock and other materials. It's not necessary to bring anything to participate; however, attendees are encouraged to bring special paper or decorating supplies such as markers, colored pencils, magazine pages, etc., to create their own unique style.

1200-1300 CF Lunch at Rockhurst

1315-1400 CR Session - Apple II Copy Cards - A Byte on the Wild Side.  
- Mike Maginnis

A look at the Senior PROM and WildCard Apple II copy cards.

1414-1500 CR Session - Track-center tuning of 5.25" floppy drives  
- Stephen Buggie

Over the years, millions of 5.25" floppy drives have been discarded because of an easily repaired defect: Loss of track-centering alignment. This problem is easily repaired with simple tools such as a screwdriver, a

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computer/monitor, and a software disk. Track-centering misalignment is suggested when a floppy drive can read its own written disks, but gives disk-errors when attempting to read disks written on other drives. Likewise, the disks written on the misaligned drive give error messages when read on other drives that are correctly aligned. In this session, I will present this problem and demonstrate how track-center alignment software is used to correct it. Participants will be given free copies of the public domain track-centering software, with a written handout that presents all details of the drive-realignment procedure. I will demonstrate the track-center tuning with several Apple II floppy drives: the classic Disk ][, the 3/4 height Apple 5.25 drive (with DB-19 plug), and then with one or two clone drives. Participants are invited to bring to K-Fest any floppy drives that they suspect are misaligned; I will check the alignment of each drive and adjust it to perfection, FOR FREE.

**1530-1730            CR            Apple II Exhibition Hall / Swap Meet / Vendor Fair**

Bring out your gear, set it up, and we can all enjoy each other's hacks, machines, etc. This is also a good time to lay out your wares for sale.

**1530-1600            CR            HackFest 2013 behind-closed-doors judging**

**1630                    CR            Awarding of HackFest 2013 Prizes**

**1900                    KS            Informal trip to local restaurant**

**2200                    KS            Movie Night / Apple Store Visit**  
- on the town or in the dorm, stay tuned for details

**2300-?**                    Late Night Walk to Steak & Shake, Get rid of the empties on the UMKC campus, etc. Why sleep? Have fun instead!

=====  
Sunday, July 28  
=====

0800-0900            CF            Breakfast at Rockhurst

1100-1300            CR            Move out of dorms

1300                    CR            Latest time for checkout.  
Please turn in your card to a KFest Committee member  
or check out at the RA desk

PLEASE DO NOT FORGET TO TURN IN YOUR KEY AND CARD. THEY COULD COST US \$100!!!

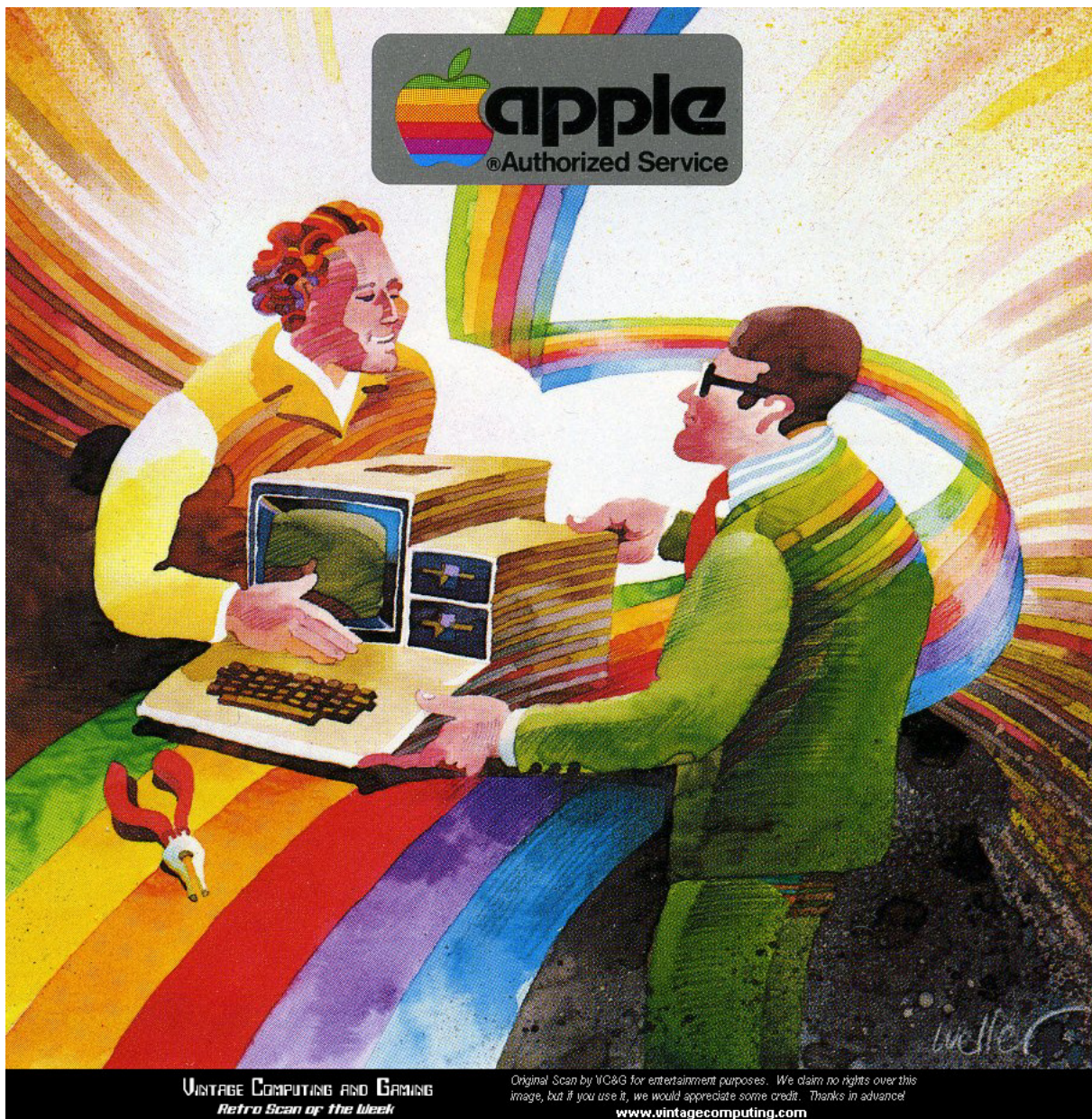
1300-?                    You are free (not FREE) to spend the afternoon visiting  
with old and new friends, exploring Kansas City, etc.

Un-II next time! There's always online time!

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The Power **II** Be Your Best



See You Next Year! - Don't Miss it!



APPLE II FOREVER

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2011

JULY 19-24, 2011  
ROCKHURST UNIVERSITY  
KANSAS CITY, MISSOURI

APPLE II - MACINTOSH

# kansasfest

20TH ANNIVERSARY

JULY 21-26, 2009  
ROCKHURST UNIVERSITY  
KANSAS CITY, MISSOURI

APPLE II - MACINTOSH

# kansasfest

2008

JULY 22-27  
ROCKHURST UNIVERSITY  
KANSAS CITY, MISSOURI

# KFest'96

computer expo

Apple II • Mac • Newton

July 18-20 • Avila College • Kansas City, MO

APPLE II - MACINTOSH

# kansasfest

2007

JULY 17-22  
ROCKHURST UNIVERSITY  
KANSAS CITY, MISSOURI

# 99

# FEST

Apple II • Mac • Newton

Computer Expo

Avila College • July 21-25



# 98

# KFEST

Apple II • Mac • Newton

computer expo

Avila College • July 23-25

# KFest 2003

Apple II  
Macintosh • Newton

July 22nd - 27th 2003  
Avila University • Kansas City, Missouri

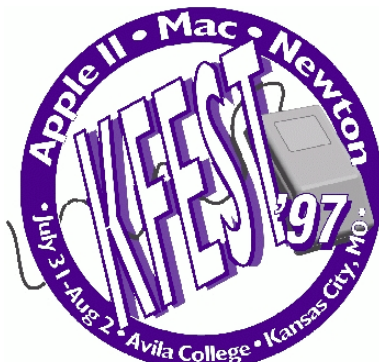
# KFest 2004

# XVII

Apple II • Macintosh

July 20th - 25th

Avila University • Kansas City, Missouri



# KFest 2005

Apple II • Macintosh

July 19th - 24th

Rockhurst University • Kansas City, Missouri

APPLE II - MACINTOSH

# kansasfest '06

JULY 18-23 • ROCKHURST UNIVERSITY

# 06

KANSAS CITY, MISSOURI

APPLE II - MACINTOSH

# kansasfest

# 2010

21st ANNIVERSARY  
JULY 20-25  
ROCKHURST UNIVERSITY  
KANSAS CITY, MISSOURI

THE YEAR WE MAKE CONTACT. AGAIN.



APPLE II FOREVER

# kansasfest

JULY 17-22, 2012  
ROCKHURST UNIVERSITY  
KANSAS CITY, MISSOURI