



FISCAL 2012 REPORT TO THE COMMUNITY

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ADDRESS

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OP CODE

ADDRESS

WHO INVENTED THE COMPUTER?

LETTER FROM THE CHAIRMAN

Everyone knows who invented the

printing press, the electric light bulb, and the airplane. So it is mildly embarrassing that we can't give visitors to the Computer History Museum a simple answer when they ask the obvious question: who invented the computer?

There are actually many answers. My favorite is "Charles Babbage," who in 1837 invented a mechanical computer that was general-purpose, digital, and programmable. But he failed to build it. Maybe that failure explains why little progress was made in the next hundred years, even though the technology was there. Someone could have built a programmable computer out of electromagnetic relays in the late 1800s, but no one did. Was it the lack of need? Or a lack of imagination?

Serious work wasn't resumed until Alan Turing—whose birthday centennial we celebrated this June—invented in 1936 an entirely theoretical computer that we now call a "Turing Machine," and proved it was as powerful as any computer that could ever be built. Suddenly the race was on, and real computers—or computer-like calculators—appeared all over.

These potential computer inventors are not household names like Thomas Edison. They are Atanasoff-Berry, Konrad Zuse, Tommy Flowers, George Stibitz, Williams-Kilburn, Howard Aiken, Maurice Wilkes, Eckert and Mauchly, John von Neumann, and others. They are all interesting characters, and each contributed a piece to the

rich fabric of this history. For an easy introduction to the tableau, see the movie "Who Invented the Computer?" in the online version of our exhibition *Revolution: The First 2000 Years of Computing*, computerhistory.org/revolution/birth-of-the-computer/4/91.

Another reason why it is difficult to give a simple answer to the "who invented" question is that we don't know what "computer" means. It depends on what adjectives you put in front of it. Electronic? Programmable? General-purpose? Digital? Stored-program? With enough adjectives, anything can qualify as a first.

We revel in these nuances. Truth be told, history is rarely simple. Even "who invented the airplane" doesn't really have a simple answer that everyone has at the tip of the tongue.

Our mission is to explain and celebrate the real truth, even if it isn't simple. Thank you for helping us tell the complicated, exhilarating, frustrating, and endlessly fascinating story of the history of computers.



LEN SHUSTEK
CHAIRMAN OF THE BOARD OF TRUSTEES

Cover:
Felt & Tarrant,
Comptometer (ca. 1890): The
Comptometer was the first
commercially successful key-
driven mechanical calculator.
More than 6,500 were made.

Opposite Page:
Burroughs Corporation's
ILLIAC IV Processing
Element: This is one of 64
processing elements with
memory built for the ILLIAC
IV parallel computer. The
only ILLIAC IV made was
moved to the Navy's Moffett
Field in California in 1971 to
avoid Vietnam War turmoil on
university campuses.

DEAR FRIENDS OF THE MUSEUM

LETTER FROM THE CEO

Going Places is the title of our latest exhibition, and those same words could easily describe the Museum's year in fiscal 2012.

Throughout its long and distinguished history, the Museum has focused squarely on our mission to preserve and present the artifacts and stories of the information age. In 2012, we not only continued to pursue and celebrate that mission: we broadened our approach to interpret computing's indelible impact on our modern lives.

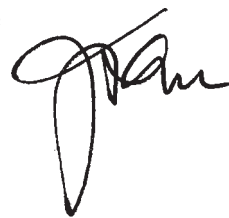
Going Places: The History of Google Maps with Street View connects computing's past to the future for Museum visitors with just that goal in mind. Upon its opening in June 2012, *Going Places* began taking visitors behind the scenes of one of the most fascinating and useful breakthroughs to emerge from Google's vast arsenal of computing applications. As you'll see in these pages, we've commandeered for the exhibition one of the actual Street View vehicles used to map cities and towns across the world—and a “tricycle” that squeezes into places where a car can't fit. Digital media brings the on-street experience to life. And the historical elements of the exhibition show that—as with so much in the history of computing—today's Street View technology evolved from and is connected to the dream of visual street navigation that began a century ago.

The year was marked by a second major breakthrough for us: the acquisition of the historic lab and patent notebooks of Fairchild Semiconductor. These notebooks, described by the *San Jose Mercury News* as “the tech equivalent of the Magna Carta,” tell the first-hand story of how a band of brilliant and determined scientists and

engineers at Fairchild brought the planar integrated circuit into being—and thereby changed the world forever. The work of Hoerni, Noyce, Moore, Last, Grove and others at Fairchild will now be conserved and made accessible here at the Museum for all time as the result of this landmark gift, which was made possible by Texas Instruments. Being selected as the home of these precious documents is a singular event in the life of the Museum and, in my view, very much cements our status as a world-class collecting institution.

Through it all, we enjoyed record annual attendance, the robust growth of traffic on computerhistory.org, a significant expansion of our oral history program to Russia, the launch of our *Revolutionaries* television series on KQED television and radio, the successful debut of our *Get Invested* education program, and 370 events in 365 days. If this progress indicates that we are indeed “going places” as an institution, it's because we continue to enjoy your support as a community in so many ways. Thank you!

Yours sincerely,

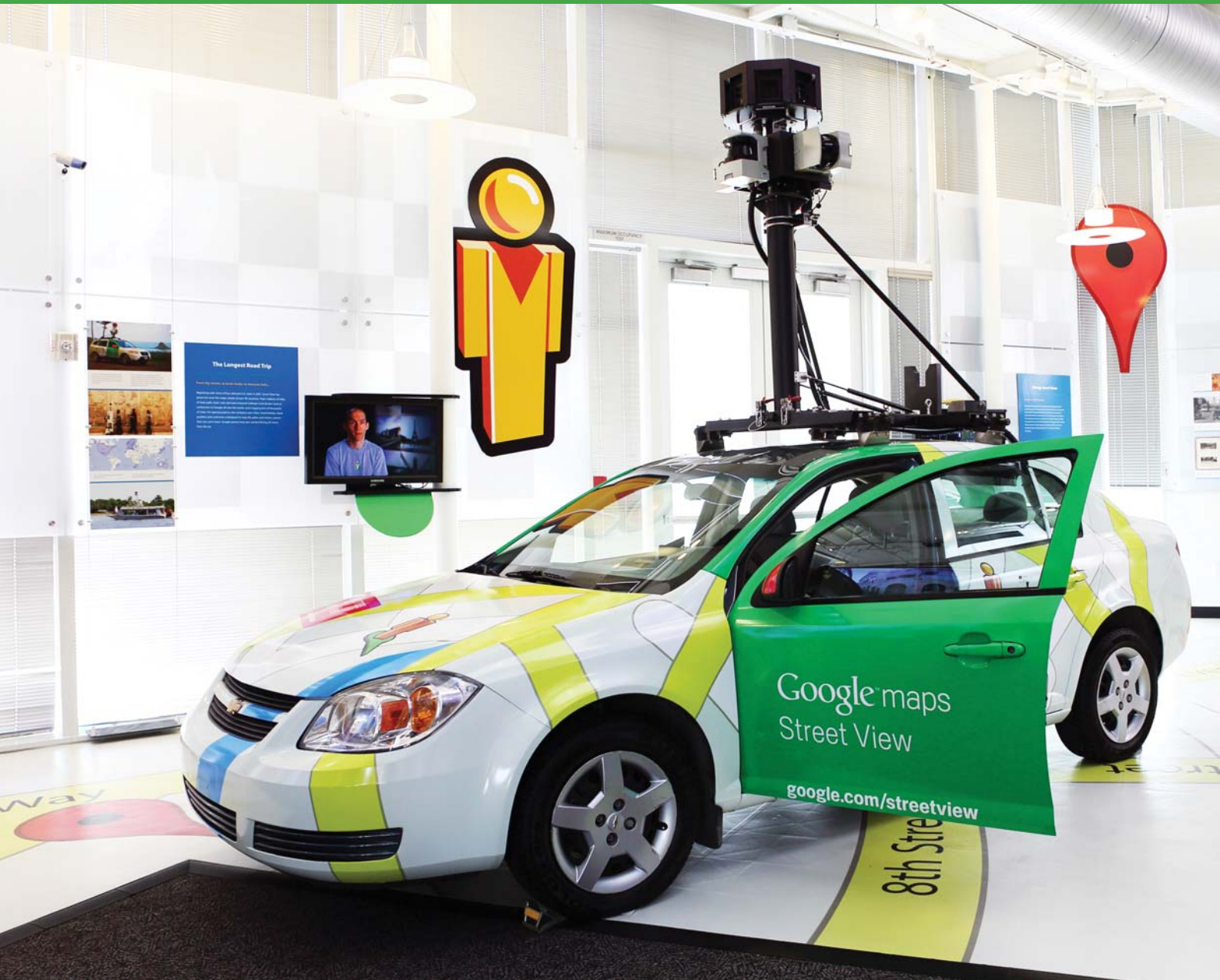


JOHN C. HOLLAR
PRESIDENT & CHIEF EXECUTIVE OFFICER



THE HISTORY OF GOOGLE MAPS WITH STREET VIEW

GOING PLACES



GOOGLE MAPS WITH STREET VIEW

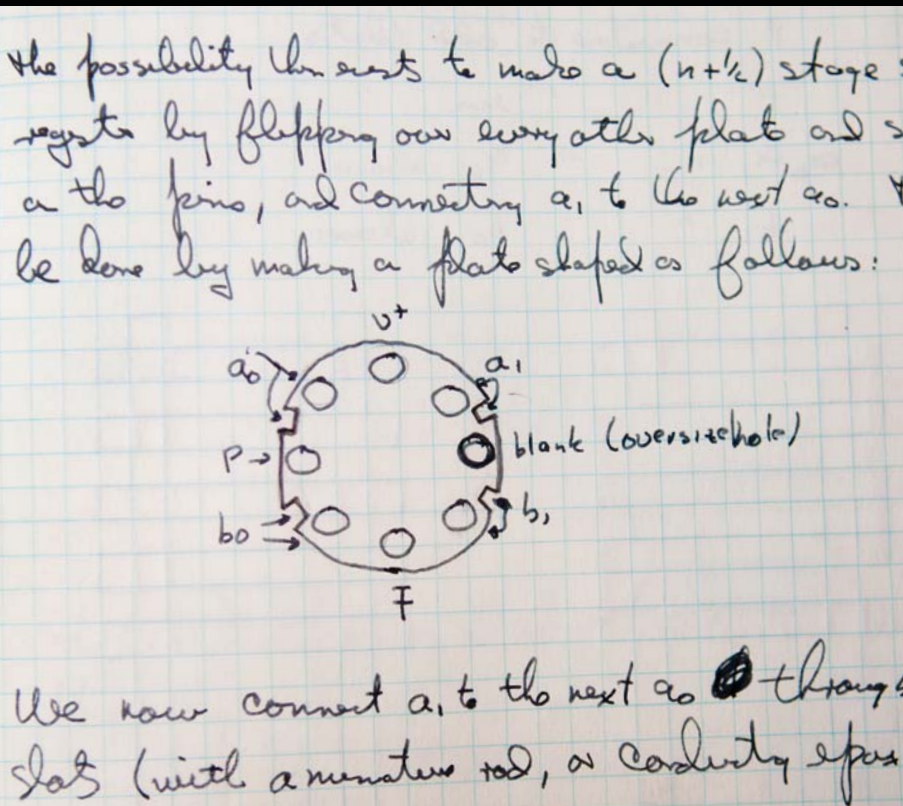
Since 2007, Google Maps with Street View has transformed our ideas about going places, from faraway lands to a restaurant across town. Visitors to the exhibit can sit inside a Street View car, ride a Street View trike, hear behind the scenes stories from the Google Street View team, and learn about vintage street views, including the revolutionary Aspen Movie Map project from 1978.





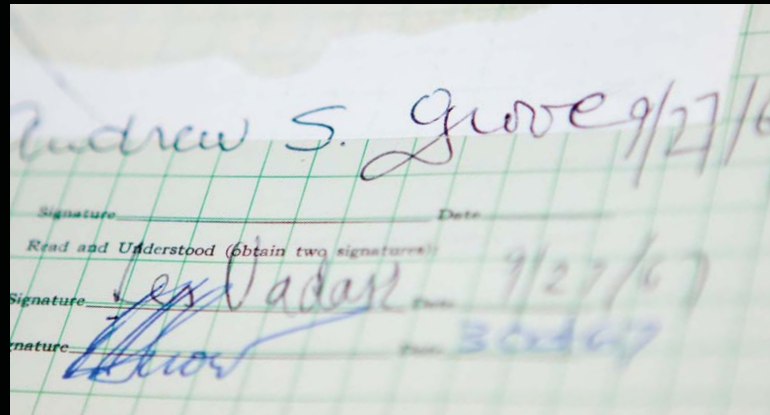
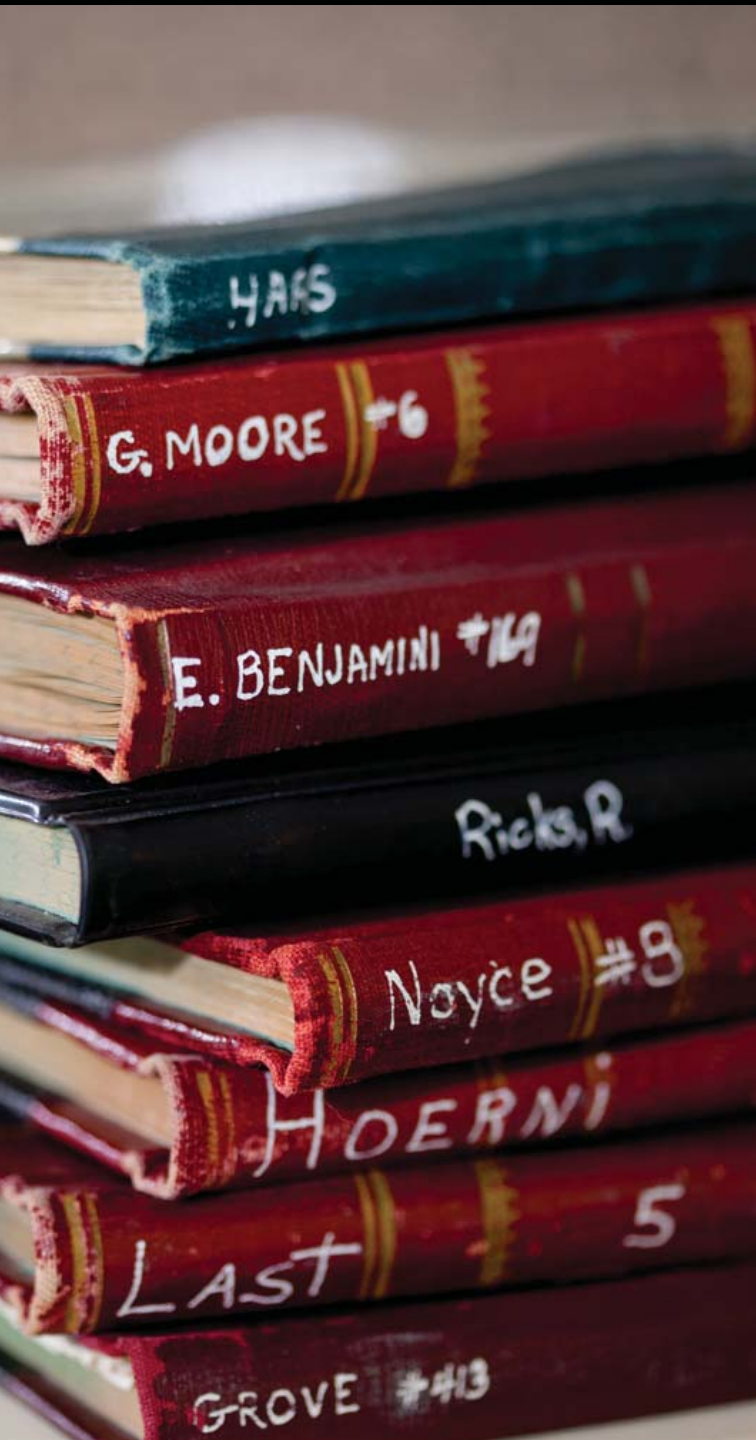
FAIRCHILD PAPERS

The Museum is very excited about acquiring over 1,000 patent notebooks originating from the pioneering Silicon Valley company, Fairchild Semiconductor, through a generous donation from Texas Instruments. Fairchild, founded in 1957, was one of the pioneering technology companies in Silicon Valley. The history-making contribution of Fairchild's founders was the development of the planar process, a technique that enabled the high-volume production of integrated circuits. In fact, Jean Hoerni's 1957 notebook includes a hand drawn sketch of the original planar technology that improved the reliability of all semiconductors and revolutionized the science and manufacturing of microelectronics. In addition, of particular significance are notebooks from Gordon Moore, Jay Last, Andy Grove and Robert Noyce.

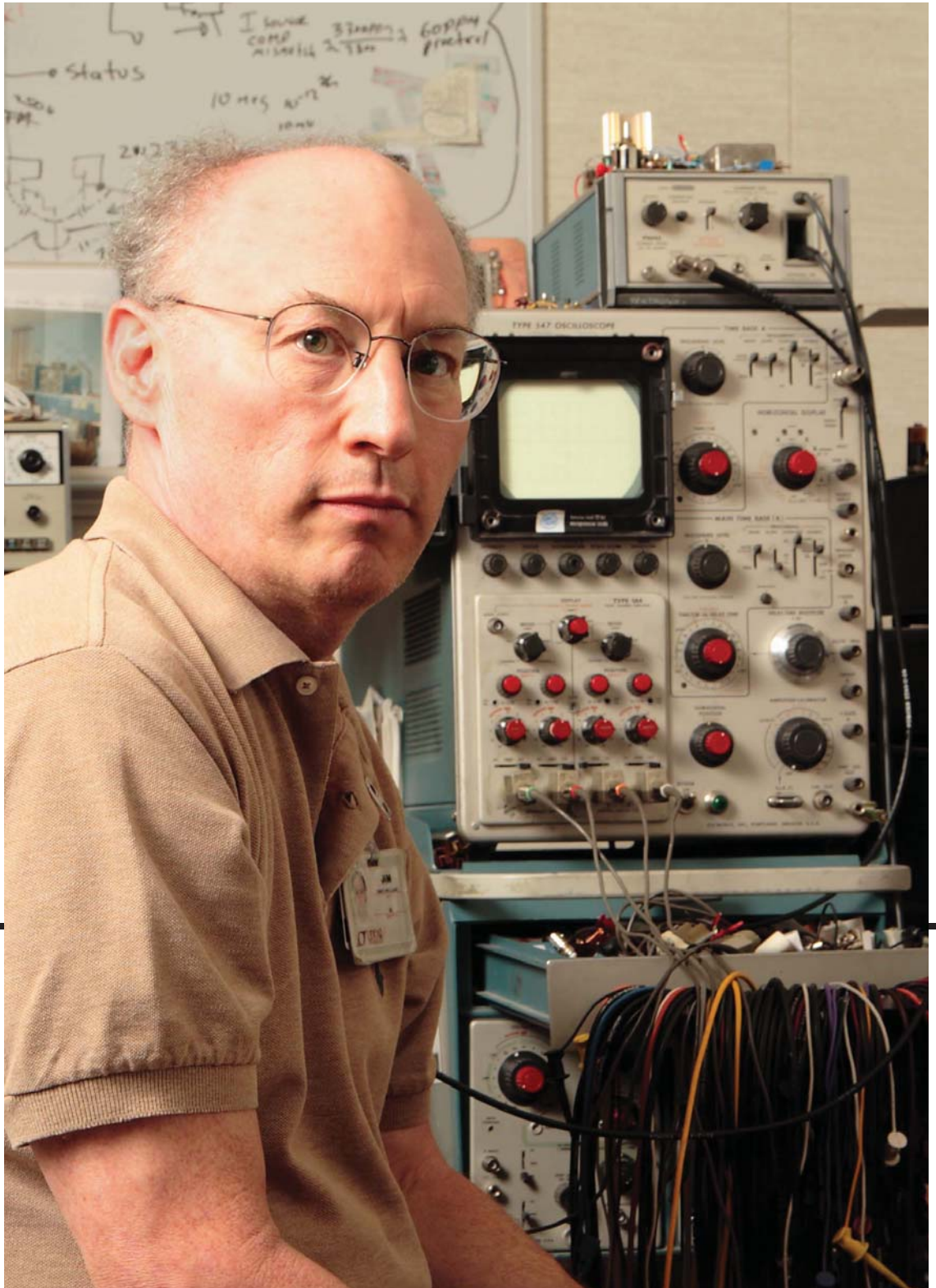


“...THE TECH EQUIVALENT OF
THE MAGNA CARTA AND THE
DECLARATION OF INDEPENDENCE
AND THE CONSTITUTION...”

MIKE CASSIDY, *SAN JOSE MERCURY NEWS*



FY2012 HIGHLIGHTS



JIM WILLIAMS:
AN ANALOG LIFE

2

New exhibits: Going Places: The History of Google Maps
with Street View and An Analog Life: Jim Williams

25

Celebrating 25 Years of Fellow Awards

134,141

Visitors

215

Hours of exposure on public television, C-SPAN and KQED

370

Events in 365 days

25000+

Student visitors

January 12, 2012



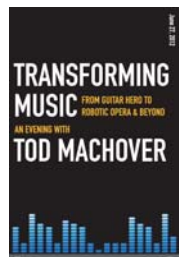
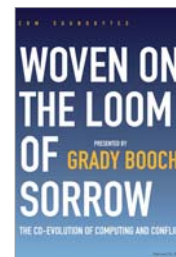
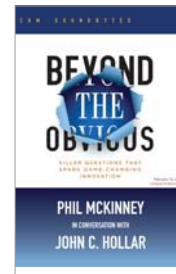
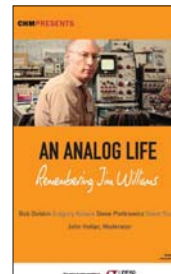
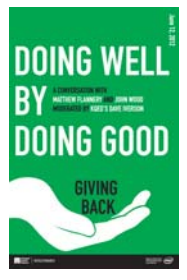
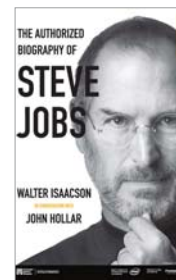
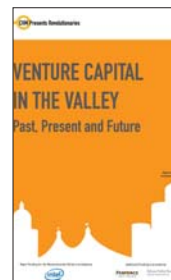
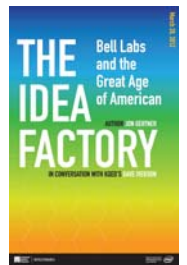
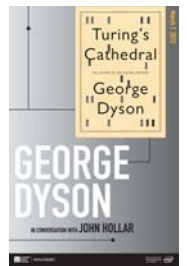
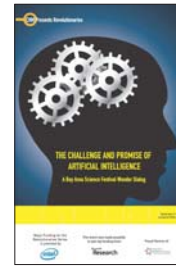
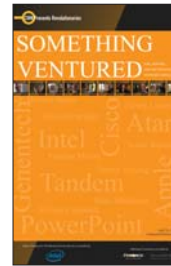
AN EVENING WITH

MARISSA
MAYER



REVOLUTIONARIES

Major Funding for the
Revolutionaries Series
is provided by:



AN EVENTFUL YEAR

07.24.11

Something Ventured

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President & CEO,
Computer History Museum

Speakers

Molly Davis
Founding Partner,
Rainmaker Communications

Dan Geller
Filmmaker,
Geller Goldfine Production

Dayna Goldfine
Filmmaker,
Geller Goldfine Production

07.27.11

MIPS: Risking it all on RISC

Moderator

David L. House
Chairman, Brocade Communications Systems, Inc.

Speakers

Joseph DiNucci
Professional Coach and
Partner, Enabling Thought
Leadership

John L. Hennessy
President,
Stanford University

Bob Miller
Founder and CEO,
CloudPrime

Skip Stritter
Founder, MIPS

08.24.11

Software Patent Debate

Moderator

John C. Hollar
President & CEO,
Computer History Museum

Speakers

FOR: Bob Zeidman
President, Zeidman
Consulting

AGAINST: Edward A. Lee
Professor of Electrical
Engineering and Computer
Science, UC Berkeley

09.21.11

Venture Capital in the Valley:
Past, Present & Future

Moderator

Richard Waters
Editor, Financial Times

Speakers

Dick Kramlich
Chairman, NEA Management
Company

Theresia Gouw Ranzetta
Partner, Accel Partners

10.15.11

An Analog Life:
Remembering Jim Williams

Moderator

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Speakers

Steve Young
Founder and CTO,
Bam Labs Inc.

Steve Pietkiewicz
Vice President, Power Management Products, Linear
Technology

Gregory Kovacs
Professor, Stanford University,
Department of Electrical
Engineering

Bob Dobkin
Co-Founder and CTO of
Linear Technology

10.25.11

Worm: The First Digital
World War.

Moderator

John Markoff
Senior Writer,
The New York Times

Speakers

Mark Bowden
Author

T.J. Campana
Senior Program Manager,
Digital Crimes Unit,
Microsoft

11.05.11

The Challenge and Promise
of Artificial Intelligence, a
Bay Area Science Festival
Wonder Dialog

Moderator

Tim Olson
VP, Digital Media and
Education, KQED

Speakers

Dr. Eric Horvitz
Distinguished Scientist,
Microsoft Research

Dr. Peter Norvig
Director of Research, Google

11.08.11

The Technology of Animation

Moderator

Philip McKinney
Trustee, Computer History
Museum

Speakers

Jeffrey Katzenberg
CEO, Dreamworks

Ed Leonard
CTO, Dreamworks

11.15.11

A Computer Called Watson:
IBM Research's David
Ferrucci in Conversation with
the Financial Times' Richard
Waters

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Richard Waters
Editor, Financial Times

Speaker

Dr. David Ferrucci
IBM Fellow, Watson Principal
Investigator for IBM
Research

12.13.11

Steve Jobs: The Authorized
Biography

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John C. Hollar
President & CEO,
Computer History Museum

Speaker

Walter Isaacson
Author

01.12.12

An Evening with Google's
Marissa Mayer

Moderator

Laura Sydell
NPR Digital Culture
Correspondent

Speaker

Marissa Mayer
Vice President of Local,
Maps, and Location
Services, Google

02.16.12

Beyond the Obvious: Killer
Questions that Spark Game-
Changing Innovation

Moderator

John C. Hollar
President & CEO,
Computer History Museum

Speaker

Philip McKinney
Author and Trustee,
Computer History Museum

02.24.12

Woven on the Loom of
Sorrow: The Co-Evolution
of Computing and Conflict,
presented by Grady Booch

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Speaker

Grady Booch
Author and Trustee,
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03.07.12

Turing's Cathedral

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George Dyson
Author

03.28.12

The Idea Factory:
Bell Labs and the Great Age
of American Innovation

Moderator

Dave Iverson
KQED

Speaker

Jon Gertner
Author

05.09.12

From the UNIVAC to Web
2.0: Politics, Computers and
the Making of a 21st Century
Presidency

Moderator

Richard Tedlow
Emeritus Professor, Harvard
Business School & Author

Speakers

Christopher Lehane
Partner, Fabiani & Lehane

Sarah Feinberg
Director, Policy Communications,
Facebook

Tucker Bounds
Manager, Corporate
Communications, Facebook

06.12.12

Doing Well by Doing Good

Moderator

Dave Iverson
KQED

Speakers

Matthew Flannery
Co-Founder & CEO, Kiva

John Wood
Founder, Room to Read

06.18.12

Driving Innovation: Detroit
Comes to Silicon Valley—
An Evening with Bill Ford

Moderator

John C. Hollar
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Speaker

Bill Ford
Executive Chairman,
Ford Motor Company

06.27.12

Transforming Music: From
Guitar Hero to Robotic Opera
& Beyond

Moderator

John C. Hollar
President & CEO,
Computer History Museum

Speaker

Tod Machover
Composer & Muriel R.
Cooper Professor of Music &
Media at the MIT Media Lab

FINANCIAL SUMMARY

INCOME STATEMENT (\$K)

	FY 2012	FY 2011
Total Revenue	\$7,615	\$9,556
Total Expenses	\$7,298	\$6,697
Net Operating Income	\$317*	\$2,859*

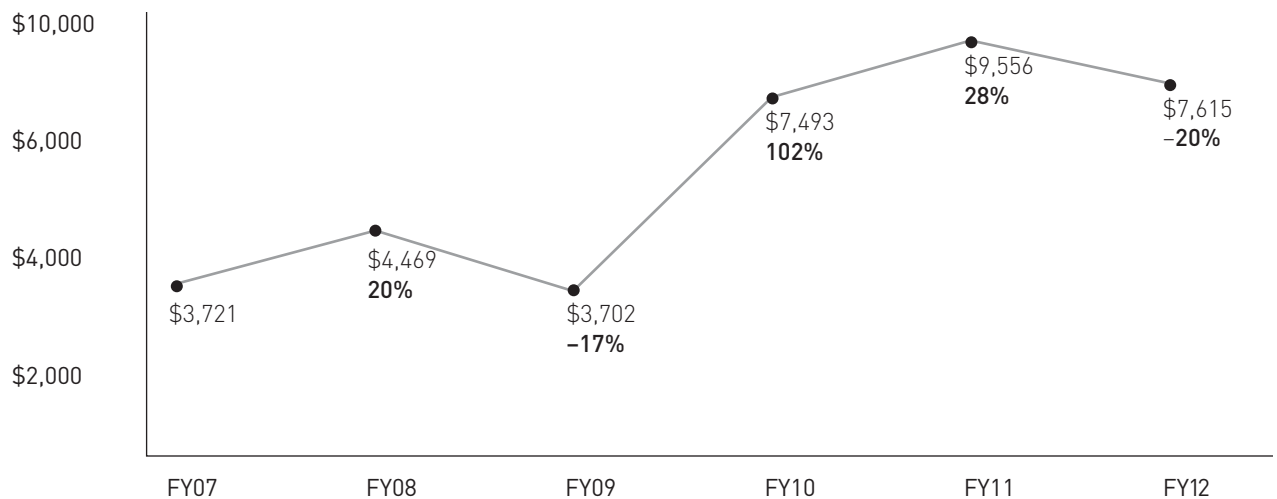
REVENUE CATEGORIES (\$K)

Donations	\$4,678	\$8,099
Public Programs	\$1,151	\$562
Venue Rental	\$1,499	\$877
Other Income	\$287	\$18
	\$7,615	\$9,556

EXPENSE CATEGORIES (\$K)

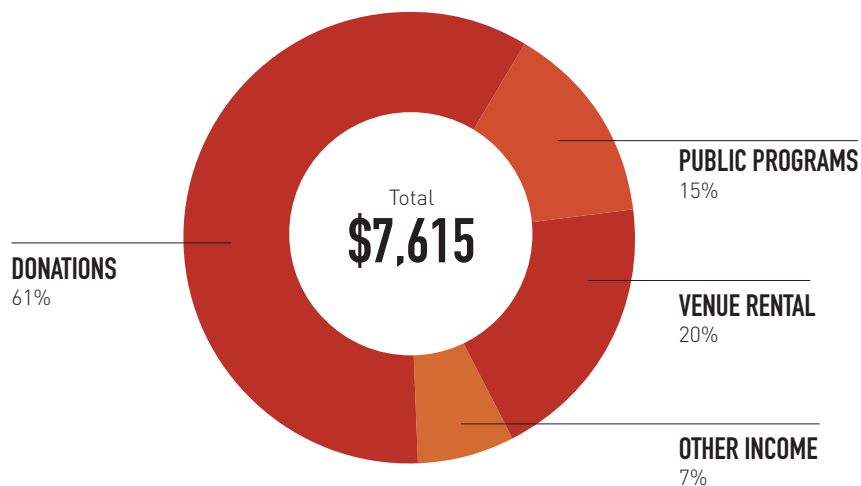
Operations	\$1,202	\$870
Content & Public Programs	\$5,481	\$5,111
Marketing & Development	\$615	\$716
	\$7,298	\$6,697

REVENUE GROWTH YEAR OVER YEAR (\$K)

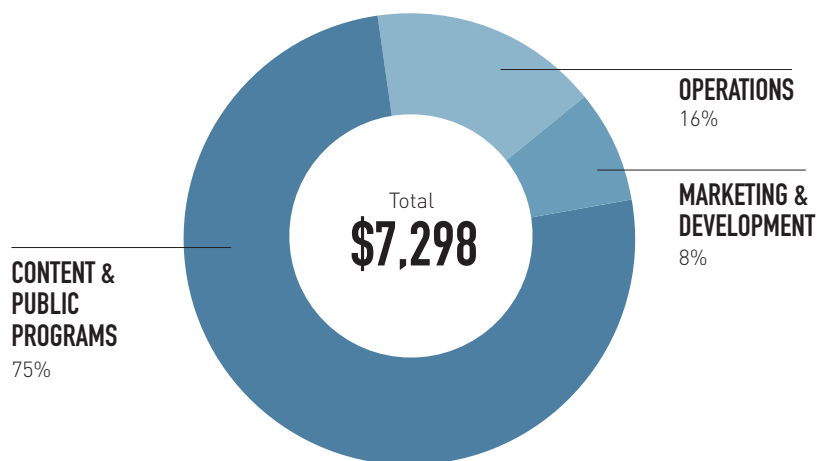


*Earnings before interest, depreciation, amortization and investment gains and losses

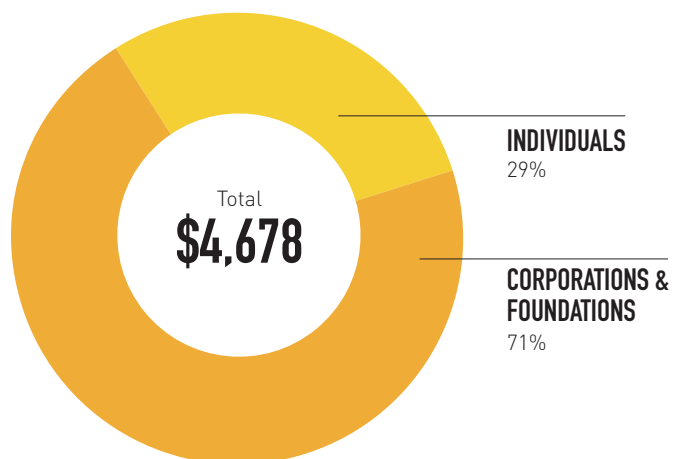
REVENUE BY CATEGORY (\$K)



EXPENSES BY CATEGORY (\$K)



DONATIONS BY TYPE OF DONOR (\$K)



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ABOUT THE MUSEUM

The Computer History

Museum is the world's leading institution exploring the history of computing and its ongoing impact on society. It is home to the largest international collection of computing artifacts in the world, including computer hardware, software, documentation, ephemera, photographs, and moving images. The Museum brings computer history to life through an acclaimed speaker series, dynamic website, on-site tours, and exhibitions.

HOURS

Wednesday–Sunday
10 am–5 pm

CONTACT

Computer History Museum
1401 N. Shoreline Blvd
Mountain View, CA 94043
info@computerhistory.org
650.810.1010

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CURRENT EXHIBITS

Revolution: The First 2000 Years of Computing

Everyone uses computers. Few know the story of how they came to be. *Revolution* is the only historically authoritative exhibition exploring the explosive growth of computers, software, and networking. It chronicles the evolution and impact of modern computing from the abacus to the smartphone. This 25,000 sq. ft. multimedia experience is a technological wonderland that immerses visitors in the sights, sounds, and stories of the computer revolution.

Babbage Difference Engine No. 2:

The Story of the First Computer Pioneer

Charles Babbage (1791–1871) designed the first modern programmable computer—complete with a printer—but he failed to build it. Engineers at the London Science Museum finally built the first working Babbage Engine in 2002. The Babbage Difference Engine No. 2 on display at the Museum has 8,000 parts, weighs five tons, and measures 11 feet in length. Learn more about this extraordinary object and the people who built it.

Going Places:

The History of Google Maps with Street View

Since 2007, Google Maps with Street View has transformed our ideas about going places, from faraway lands to a restaurant across town. Visitors to the exhibit can sit inside a Street View car, ride a Street View trike, hear behind the scenes stories from the Google Street View team, and learn about vintage street views, including the revolutionary Aspen Movie Map project from 1978.

PDP-1

Digital Equipment Corporation's (DEC) PDP-1 was the first commercial computer designed to interact with a single user. The Museum's restoration team brought a PDP-1 back to working condition. They retrieved data from its main memory, restored all the peripherals, and loaded the machine with vintage games, including *SpaceWar!*

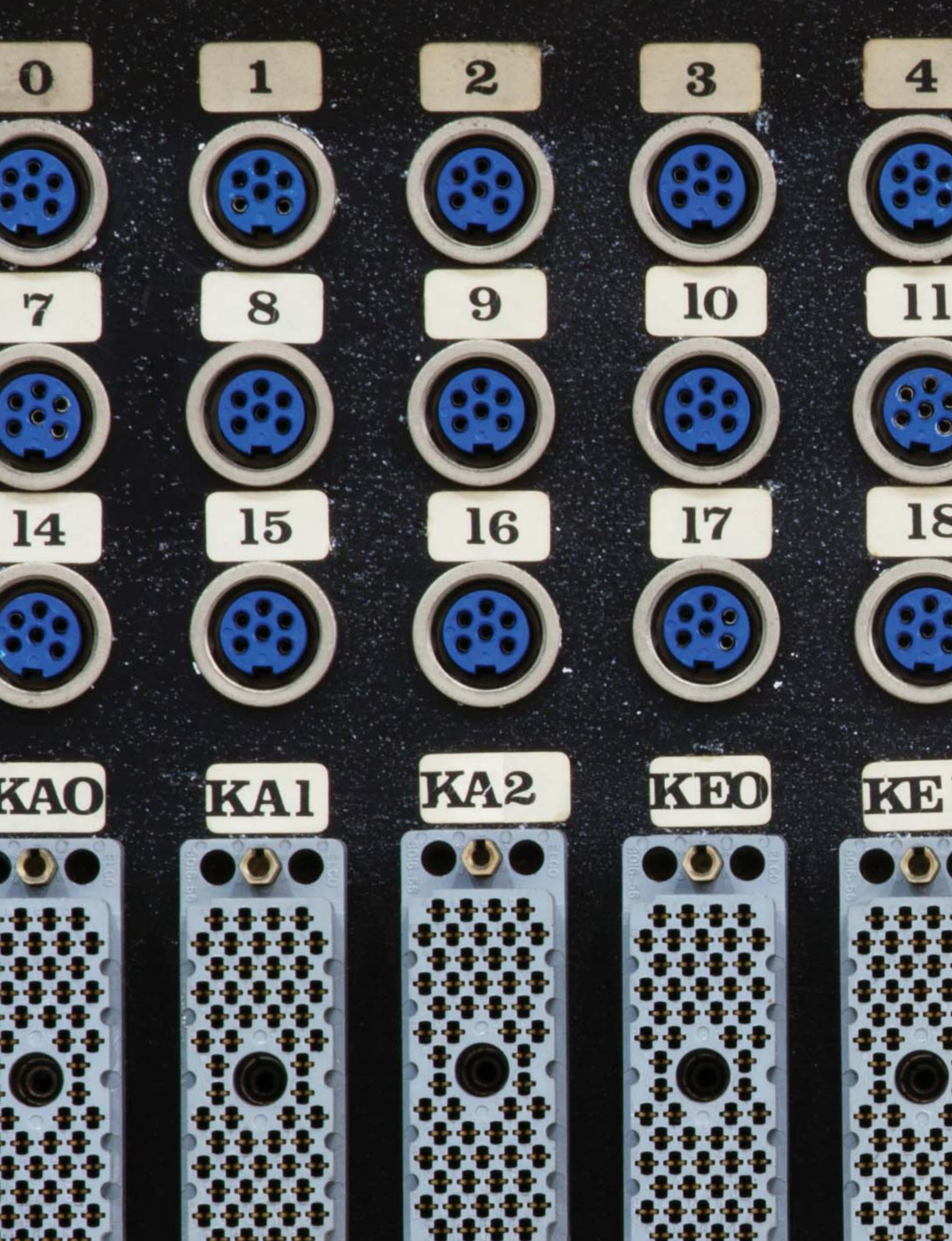
An Analog Life:

Remembering Jim Williams

A temporary display featuring the workbench of legendary analog circuit guru Jim Williams. Visitors can learn about the importance and impact of analog circuits on current technology and be inspired by the life and work of Jim Williams.

SUPPORT

Generous contributions from individuals like you support our work in collections, exhibit development, and educational programming. We strive to foster greater understanding of the computing revolution's worldwide impact on the human experience. Please help us tell the fascinating stories of the information age by making a gift today. Go to computerhistory.org/contribute/



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