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The Reception and Horological Information Exchange
A Global Networking Event

is part of:

TIME FOR EVERYONE
THE ORIGINS, EVOLUTION, AND FUTURE OF PUBLIC TIME

The NAWCC 2013 Ward Francillon Time Symposium
7–9 November 2013
California Institute of Technology, Pasadena, CA
Welcome to the Reception and Horological Information Exchange!

Studying the history of timekeeping, be it as a collector, an enthusiast, a restorer, or a scholar, is inherently a solitary activity. However, most of us can profit immensely from the knowledge, insights, and experience of others. The organizers of this Symposium believe all attending can learn and benefit from these informal, one-on-one interactions.

With that in mind, Friday evening has been reserved for a global horological networking opportunity for all Symposium registrants. This event will be held in the International Ballroom of the Hilton Pasadena from 7:30 pm to 11 pm, with beverages and nibbles provided. This is your opportunity to mingle with the other conference attendees, the speakers, and the representatives of the participating museums, horological societies, educational institutions, and sales rooms.

The various institutions providing services to the global horological community do play a vital role in keeping us all connected, be they not-for-profit, such as museums, or commercial enterprises, like the auction houses putting on horological sales. This is an opportunity to become acquainted with organizations and services with which we may be unfamiliar. These organizations have been invited to ‘present themselves’ through information booths in the reception hall. Thirty-six institutions from five different countries are expected to participate.

We hope you will use and enjoy this opportunity to the fullest: roam, inquire, network, ask questions, gather new information, and make new horological friends.

Fortunat Mueller-Maerki
Coordinator for the Reception and Horological Information Exchange
Bonhams holds twelve specialty clock and watch sales a year in New York, London and Hong Kong.

Our auctions cover the entire range of collectors' interests including fine wristwatches by Patek Philippe, Rolex and other important makers, rare American, early English and Continental watches and clocks, fine jeweled and enameled watches and much more.

For a complimentary catalog to an upcoming auction, please contact:

watches.us@bonhams.com

Above:
Sold in New York for $421,500
Patek Philippe. A fine gold chronograph wristwatch with perpetual calendar and moon phases, Ref: 2499, circa 1955

Right:
Sold in London for $1,108,200
Discovered by Bonhams. A highly important 17th century English ebony bracket clock attributed to Ahasuerus Fromanteel
PARTICIPATING INSTITUTIONS
ORGANIZED BY TYPE OF INSTITUTION

The following list of institutions is an introduction to the organizations that will host tables at Friday evening's Reception and Horological Information Exchange. Each institution has provided a brief description, their location, their web address, and the name(s) of the representative(s) who will be at their table to answer questions. After each listing is the table number at which you will find them.

Please refer to the map on the inside of the back cover for the layout of tables. Facing the map, on page 20, we have listed the organization names in table order (and on pages 17 and 19 they are listed by country and in alphabetical order), so you can find the institutions you are seeking, as well as learn about new organizations you meet at the exchange.

HOROLOGICAL AUCTION HOUSES/SALES ROOMS

Bonhams Clocks & Watches Departments
LONDON (UK), NEW YORK (USA), HONG KONG
WWW.BONHAMS.COM/DEPARTMENTS/CAT-WAT/
Bonhams, founded in 1793, is one of the world’s oldest and largest auctioneers of fine art and antiques. The present company was formed by the merger in November 2001 of Bonhams & Brooks and Phillips Son and Neale UK, and later acquired Butterfields. Today, Bonhams offers more sales than any of its rivals through two major salerooms in London, and four more throughout the UK. Sales are also held in New York and California, as well as in Switzerland, France, Monaco, Hong Kong and Australia. It is the only global auction house regularly offering specialised clock sales, rather than selling clocks primarily as decorative arts.
Represented by James Stratton, International Director of Clocks; Paul Maudsley, International Director of Watches; and Jonathan Snellenburg, Director of Fine Watches and Clocks, New York
TABLE 3

Carter-Wright Ltd.
STROUD, GLOUCESTERSHIRE, UNITED KINGDOM
WWW.CARTER-WRIGHT.CO.UK/
Carter-Wright deal in the finest English clocks from all periods, particularly specialising in Fromanteel, Tompion, Knibb, East, Quare, Graham and many others.
Represented by Ben Wright, Director, and Jonathan Carter, Director
TABLE 27

Christie's Watch Department
LONDON (UK), NEW YORK (USA), GENEVA (SWITZERLAND), AND HONG KONG
WWW.CHRISTIES.COM
Christie’s watch department holds bi-annual auctions in New York, Geneva and Hong Kong. In addition, Christie’s offers exemplary watches year round from their private sales collection and has recently introduced online-only watch auctions. Whether you are building a collection or looking to sell a timepiece, Christie’s watch specialists are available to assist you.
Represented by John Reardon, Specialist, Head of Watches, New York, and Doug Escribano, Head of Sale, Watches, New York
TABLE 26

Skinner Inc., Dept. of Clocks, Watches & Scientific Instruments
BOSTON, MA, AND MARLBOROUGH, MA, USA
WWW.SKINNERINC.COM/SPECIALTY-AREAS/ANTIQU-CLOCK-AUCTION/
Skinner is the preeminent New England auction house, attracting top consignments and commanding record-breaking prices in the international auction marketplace for more than 40 collecting categories. With renowned expertise and personalized, attentive service, Skinner is the place to buy and sell fine objects of value at auction.
Represented by Robert Cheney, Director, Clocks, Watches & Sci. Inst.; Jonathan Dowling, Specialist; and L. Emerson Tuttle, Director, Institutional Relations
TABLE 21

(continues)
The Antiquarian Horological Society is a British learned society formed 1953, founded to encourage the study of all things horology, to publish and disseminate related knowledge. Its journal ‘Antiquarian Horology’ is published quarterly, and its lectures are held at the Royal Astronomical Society in London.

Info at www.ahsoc.org
Or contact the Secretary at:
secretary@ahsoc.com

Left: Examining a Paul Garnier 1827 clock in the suburban warehouse of the CNAM near Paris during the 2013 Study tour of the American Section.
Below: American Section visiting the Grand Trianon beyond the velvet ropes while it is closed to the public

The core activity of the American Section are horological study tours to a European country, that are organized about every 18 months, and which provide participants a unique opportunity to examine world class horological treasures in private collections and public institutions that are not accessible to individual travelers.

Our most recent members only adventure in April 2013 took us to 30 venues in France over the course of eleven days.

For more information contact:
jimcipra@yahoo.com
Sotheby's Watches
LONDON (UK), NEW YORK (USA), GENEVA (SWITZERLAND), HONG KONG
WWW.SOTHEBYS.COM/EN/DEPARTMENTS/WATCHES.HTML

Sotheby’s Watches department offers the finest timepieces from the 16th to the 21st centuries, including many of the most important clocks, pocket watches and wristwatches offered for public sale. Our specialists’ combined knowledge and experience is unparalleled in the category and the department has consistently achieved benchmark prices, such as the auction record for any watch: the Henry Graves Patek Philippe Supercomplication sold in 1999 and still the world record for a timepiece at $17,100,000. Represented by Daryn Schnipper, Senior Vice President & Chairman, International Watch Division

TABLE 2

HOROLOGICAL COLLECTORS ASSOCIATIONS

Antiquarian Horological Society
TICEHURST, SUSSEX, UNITED KINGDOM
WWW.AHSOC.ORG

The AHS for over 50 years has been publishing Antiquarian Horology, a quarterly journal, which is the world’s leading scholarly, peer-reviewed publication dealing with historic timekeeping devices. Represented by David Rooney, Board Member

TABLE 7

Antiquarian Horological Society – USA Section
USA
WWW.AHSOC.ORG

The core activity of the American Section are horological study tours to a European country, which are organized about every 18 months and provide participants a unique opportunity to examine world class horological treasures in private collections and public institutions that are not accessible to individual travelers. Represented by Jim Cipra, President

TABLE 7

Chronometrophilia
SWITZERLAND
WWW.CHRONOMETROPHILIA.CH

Chronometrophilia is the association for the study of old and vintage clocks and watches in Switzerland. Its proceedings and publications are in equal parts in German and in French. Represented by Nicklaus Maag, Board Member

TABLE 22

Deutsche Gesellschaft für Chronometrie
NÜRNBERG, GERMANY
WWW.DG-CHRONO.DE

With over 1,200 members and a 60+ year history the DGC is Germany’s not-for-profit association of horological enthusiasts. They publish a quarterly newsletter and a scholarly yearbook. Represented by Josef Stadl, President

TABLE 23

Federatie Klokkenvrienden
THE NETHERLANDS
WWW.FED-KLOKKENVRIENDEN.NL

The Federatie Klokkenvrienden is the Dutch umbrella organization of all associations and institutions associated with collecting and studying historic timekeepers. Represented by Kees Grimbergen, Voorzitter (Chairman)

TABLE 25

National Association of Watch and Clock Collectors (NAWCC)
COLUMBIA, PA, USA
WWW.NAWCC.ORG

With over 15,000 members organized into about 150 geographic and special interest chapters, the NAWCC is the largest membership-based organization of horological collectors, scholars, and enthusiasts in the world. Represented by Steven Humphrey, Executive Director

TABLE 13 / 14

Time-Nuts
GLOBAL VIRTUAL COMMUNITY
WWW.LEAPSECOND.COM/TIME-NUTS.HTM

Time-Nuts is a group of amateur precise time and frequency enthusiasts. We collect, measure, and experiment with quartz, rubidium, and cesium atomic clocks, with phase comparators and frequency counters, and with NTP, radio, or GPS time sources. We are in pursuit of ultra-precise time at home, at the microsecond, nanosecond, and even picosecond level. Represented by Tom van Baak, Coordinator

TABLE 18
Only fifteen people in the world can ever own such a timepiece.

Invented by Dr John C Taylor, its name derived from the Greek term ‘TIME EATER’, the Chronophage is an exquisite and dynamic amalgamation of contemporary art, a timepiece and beautiful craftsmanship that attracts, engages and mesmerizes.

EXQUISITE
Every detail of the design, construction and finish is painstakingly executed to create near perfection.

EXCLUSIVE
No two will be the same, and only fifteen will ever be made.

ENDURING
The materials and workmanship are of the highest quality, ensuring its longevity for generations to come.

INNOVATIVE
The first clock in the world which uses the patented method of displaying relative time.
HOROLOGICAL INNOVATORS AND INVENTORS

Mumford Micro Systems
SANTA BARBARA, CA, USA
WWW.BMUMFORD.COM/MICROSET.HTML

The MicroSet, a powerful electronic diagnostic tool for the analysis of clock performance, locally produced in Southern California, has revolutionized how horologists from tinkerers to scientists can examine and analyze the performance of their timekeepers.
Represented by Bryan Mumford, Inventor
TABLE 18

John C. Taylor Ltd.
ISLE OF MAN
WWW.JOHNCTAYLOR.COM

The mission of the John C. Taylor organisation includes the invention and manufacture of horological works of art and innovative components.
Represented by John C. Taylor, Inventor
TABLE 28

The Long Now Foundation
SAN FRANCISCO, CA, USA
WWW.LONGNOW.ORG/

The Long Now Foundation was established in 1996 to develop the Clock and Library projects, as well as to become the seed of a very long-term cultural institution. It hopes to provide a counterpoint to today's accelerating culture and help make long-term thinking more common.
Represented by Danny Hillis, Co-Chair of the Board, and Alexander Rose, Executive Director
TABLE 19

HOROLOGICAL LIBRARIES

Bibliographia Horologiae Mundi
GLOBAL VIRTUAL COMMUNITY
WWW.HSN161.COM/BHM/BHM1-ALLUSERS/BHM_ENTRY.PHP

Bibliographia Horologiae Mundi is an online, interactive, and collaborative online bibliographic database attempting to catalogue the world's horological literature. It currently contains over 18,000 fully indexed and searchable entries in many languages and is growing at a rate of over 1,000 new entries a year.
Represented by Fortunat Mueller-Maerki, Publisher
TABLE 17

Bibliothek der DGC
NÜRNBERG, GERMANY
WWW.DG-CHRONO.DE/INDEX.HTML/BIBLIOTHEK

The Library of the DGC maintains Germany's largest horological research library, and is the worldwide leader in the production of full-text searchable electronic facsimile editions of historic horological periodicals and textbooks.
Represented by Bernhard Huber, Librarian
TABLE 23

National Watch & Clock Library
COLUMBIA, PA, USA
WWW.NAWCC.ORG (LIBRARY TAB)

The National Watch & Clock Library, a branch of the NAWCC, is the most comprehensive, professionally run, publicly accessible library in the world dedicated to timekeeping, and thus a key component in preserving the horological patrimony of mankind for future generations.
Represented by Nancy Dyer, Archivist
TABLE 13 / 14
An extremely rare ebony veneered and silver mounted grande sonnerie phase II table clock by Joseph Knibb, London
Circa 1680
HORLOGICAL MUSEUMS

American Clock & Watch Museum
BRISTOL, CT, USA
WWW.CLOCKANDWATCHMUSEUM.ORG
The American Clock & Watch Museum, located in Bristol, CT, in the heart of the traditional clockmaking region, has the most comprehensive collection of American-made clocks of any museum globally. 
Represented by Howard Cohen, Curator
TABLE 15

The Clockworks
LONDON, UNITED KINGDOM
WWW.THECLOCKWORKS.ORG
The Clockworks, in suburban London, is a recently founded, not-for-profit horological resource dedicated to the field of electrical timekeeping, the study and preservation of relevant objects, the furtherance of education in the subject and the fostering of skills and techniques in the conservation of electrical timekeeping apparatus. 
Represented by James Nye, Principal Sponsor
TABLE 9

Deutsches Uhrenmuseum
FURTWANGEN, GERMANY
WWW.DEUTSCHES-UHRENMUSEUM.DE/EN/START.HTML
The Deutsches Uhrenmuseum, founded 160 years ago in the Black Forest to document the local crafts, has grown to be the largest and broadest museum in Germany dedicated to timekeeping and its history. 
Represented by Eduard Saluz, Director, and Johannes Graf, Deputy Director
TABLE 24

Handel House Museum
LONDON, UNITED KINGDOM
WWW.HANDELHOUSE.ORG
Represented by Brittany Cox, Representative
TABLE 6

J. Paul Getty Museum, Conservation Department
LOS ANGELES, CA, USA
WWW.GETTY.EDU/CONSERVATION/
The Getty Conservation Institute is one of the world's leaders in systematically studying conservation and preservation technology relating to a broad array of fine art objects. 
Represented by Brian Considine, Senior Conservator of Decorative Arts
TABLE 10

J. Paul Getty Museum, Curatorial Department
LOS ANGELES, CA, USA
WWW.GETTY.EDU/MUSEUM/
The Decorative Arts department of the Getty Museum contains a significant number of important clocks, mainly of the 18th and early 19th century, mostly of French origin, primarily displayed on the ground floor of the East, West, and South Pavilions. 
Represented by Charissa Bremer-David, Curator of Decorative Arts
TABLE 10

Musée Internationale d'Horlogerie
LA CHAUX-DE-FONDS, SWITZERLAND
WWW.VILLE-DE-LA-CHAUX-DE-FONDS.CH/EN/MUSEES/MIH
The MIH is the only museum globally that attempts to collect timekeeping instruments of all eras and cultures. Besides a stellar permanent collection it maintains an ambitious schedule of temporary exhibits on various aspects of horology. 
Represented by Ludwig Oechslin, Curator
TABLE 11

Museum van het Nederlandse Uurwerk (Dutch Clock and Watch Museum)
ZAANDAM, THE NETHERLANDS
WWW.MNUURWERK.NL
The Dutch Clock and Watch Museum, located in the Zaans Schans museum village near Amsterdam, is the sole museum in the Netherlands dedicated to timekeeping and timekeepers. 
Represented by Carel Hofland, Director
TABLE 25

(continues)
Save the Date
2013 Fall Auctions
November 11 Geneva
November 27 Hong Kong
December 17 New York

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The 2013 Public Time Symposium

Contact
John Reardon
Senior Vice President, Watches
jreardon@christies.com
+1 212 636 2320

AN 18K PINK GOLD MINUTE
REPEATING PERPETUAL
CALENDAR SPLIT-SECONDS
CHRONOGRAPH WATCH,
GRANDE AND PETITE SON-
NERIE, MOON PHASES, 1900
Estimate: $1,000,000−1,500,000
Price Realized: $2,235,790
New York, June 11, 2013

CHRISTIE'S
The Art People christies.com
National Watch & Clock Museum
COLUMBIA, PA, USA
WWW.NAWCC.ORG (MUSEUM TAB)

The National Watch & Clock Museum is the most comprehensive horological museum in the Western Hemisphere. Its 12,000+ item collection (of which over 1,000 are on display) covers all aspects and periods of timekeeping. It is the only accredited horological museum in the United States.

Represented by Steven Humphrey, Executive Director
TABLE 13 / 14

West Coast Clock & Watch Museum
BELLEINGHAM, WA, USA
WWW.WCCWM.ORG

The West Coast Clock & Watch Museum, operated by a group of NAWCC volunteers in the state of Washington, presents the only major public display of horology in the northwestern United States.

Represented by Jack Goldberg, Board Member
TABLE 16

Willard House & Clock Museum
GRAFTON, MA, USA
WWW.WILLARDHOUSE.ORG/

The Willard House is the historic homestead of one of America’s pre-eminent clockmaking dynasties of the 1700s, and operates as a small museum dedicated to the horological legacy of the Willard family.

Represented by Patrick Keenan, Director
TABLE 12

Worshipful Company of Clockmakers
LONDON, UNITED KINGDOM
WWW.CLOCKMAKERS.ORG

Established by Royal Charter in 1631, the WCC is a City of London Livery Company, and the oldest surviving horological institution in the world. On public display in the Guildhall, the Museum and Library Collections contain many fine pieces and manuscripts celebrating clock and watch making in London from 1600 to the present day.

Represented by Jonathan Betts, Senior Warden, and Philip Whyte, Renter Warden
TABLE 4

HOROLOGICAL PROFESSIONAL ASSOCIATIONS

American Watchmakers-Clockmakers Institute (AWCI)
HARRISON, OH, USA
WWW.AWCI.COM

AWCI, a professional trade association, is the accrediting body for trained watch and clock professionals in the United States. Their School, with fully equipped workshops, provides continued education and certification for watch- and clock-making professionals.

Represented by Manuel Yazjian, President and Chairman
TABLE 20

British Horological Institute
UPTON, NEWARK, NOTTINGHAMSHIRE, UNITED KINGDOM
WWW.BHI.CO.UK

The BHI is the organisation of watch and clock professionals in the United Kingdom, and the publisher of The Horological Journal, currently in its 135th year and the longest running technical professional publication in the world.

Represented by a curator
TABLE 8
Time for top results and personalized service?

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Charles Cabrier, London
Musical Table Clock
C. 1780
HOROLOGICAL PUBLICATIONS

Horological Science Newsletter
PORTLAND, OR, USA
WWW.HSN161.COM/HSN/NEWSLETTER.HTML
The Horological Science Newsletter is the only publication in the world dedicated to horological theory and science. Five times a year it addresses horological issues from a mathematical, engineering, and theoretical perspective.
Represented by Bob Holmström, Publisher
TABLE 17

NAWCC Publications Department
COLUMBIA, PA, USA
WWW.NAWCC.ORG (PUBLICATIONS TAB)
The Publications Department of the NAWCC not only produces two bi-monthly periodicals for NAWCC members, but also publishes reprints of horological classics, as well as new monographs on horological subjects.
Represented by Diana De Lucca, Publisher
TABLE 13 / 14

HOROLOGICAL SCHOOLS

American Watchmakers-Clockmakers Institute (AWCI)
HARRISON, OH, USA
WWW.AWCI.COM
AWCI, a professional trade association, is the accrediting body for trained watch and clock professionals in the United States. Their School, with fully equipped workshops, provides continued education and certification for watch- and clockmaking professionals.
Represented by Manuel Yazijian, President and Chairman
TABLE 20

NAWCC Education Department
COLUMBIA, PA, USA
WWW.NAWCC.ORG (EDUCATION TAB)
The NAWCC Education Department offers a wide array of courses and events, ranging from "Home School Day at the Museum," through hands-on workshops in clock and watch repair, to courses for training horological appraisers, as well as web-based educational offerings.
Represented by Al Dodson, Instructor
TABLE 13 / 14

West Dean College
CHICHESTER, NORTH SUSSEX, UNITED KINGDOM
WWW.WESTDEAN.ORG.UK/CLOCKS
West Dean College provides a range of full-time Diploma Programmes and short courses all relating to craft skill. The Diploma Programmes include the two-year West Dean Diploma in clockmaking bench practice and the conservation-restoration of historic objects. There are also bench-based graduate, postgraduate and MA level programmes for more advanced practitioners. All programmes are delivered in dedicated workshops within the beautiful surroundings of West Dean Park.
Represented by Matthew Read, Clocks Program Tutor
TABLE 5
A fine and rare yellow gold open-faced minute repeating chronograph tourbillon watch by Charles Frodsham for J.P. Morgan, 1917.

Estimate: $100,000 - 200,000

Enquiries +1 212 606 7184
Register now at sothebys.com
A warm and heartfelt thank-you to all those whose generous financial support have made this networking event possible.

Antiquarian Horological Society

Bonhams Clocks & Watches Departments

Carter-Wright Ltd.

Christie's Watch Department

John C. Taylor Ltd.

National Association of Watch and Clock Collectors (NAWCC)

NAWCC Chapter 69, Orange County

NAWCC Chapter 75, San Fernando Valley

R. O. Schmitt Fine Arts, LLC

Skinner Inc., Dept. of Clocks, Watches & Scientific Instruments

Sotheby's Watches
R.O. SCHMITT
FINE ARTS

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“Harrison spent years adjusting the pendulum of his personal clock — you can now achieve similar results in minutes!”

Introducing a **breakthrough invention**
from Dr John C Taylor that addresses the long standing issues with pendulum clocks.

A replacement bob that utilises the existing rod of an antique pendulum clock. The ‘Intelligent Bob’ will adjust itself to correct for all errors such as:

- Variation in pendulum period from expansion due to temperature changes.
- Changes in air resistance due to changes in humidity and barometric pressure.
- Changes in impulse of the pendulum from mechanical escapement due to variations in the gear train.

- No alteration to your clock trains, mechanism, plates, weights or to the case.
- Original bob can be refitted at any time in the future.
- Optional Base Unit records each correction the Intelligent Pendulum makes - measured in microns. Records absolute clock error as well as clock rate error in seconds a day. Data includes any changes in pendulum amplitude against room temperature and barometric pressure. Software analyses cyclic errors introduced by train inequalities through a Fourier Analysis.

For further information please contact us at:
info@johnctaylor.com  www.johnctaylor.com

**intelligent pendulum**

**John C Taylor**
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