

SCIENTIFIC AMERICAN **Travel** BRIGHT HORIZONS 12

&

Macworld MAC MANIA 14

PROGRAM GUIDE

APRIL 12–19, 2012

RHINE RIVER

www.InsightCruises.com/SciAm-12

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Wednesday, April 11 (Amsterdam, Pre-Cruise)

8:45am – 5pm

OPTIONAL TOUR: Pre-Cruise Amsterdam Tour (SOLD OUT)

Meet at 8:45am for the bus

We'll meet just outside the Amrâth Hotel. Our buses and guides will be just outside the hotel and will depart promptly at exactly 9am. Do not be late cause we can't wait. Included with this full-day tour: local guide for eight hours, one-hour canal cruise, three-course lunch, and entrance fee for the Masterpieces exhibit at the Rijksmuseum.

6pm – 7pm

Pre-Cruise Cocktail Party (\$79)

[Beraadzaal / Council Chamber, 3rd floor, Amrâth]

Fabulous food and drink. *Guaranteed* to please the most discriminating among us!

Thursday, April 12 (Amsterdam, The Netherlands)

11:30am

Embarkation Day & Transfer to Ship

[Lobby to check-out then head outside, Amrâth]

If you booked the Grand Amrâth hotel with us the following information is **for you**:

- Your transfer to the pier is included. We'll be taking two bus loads to the pier: 35 people per bus trip. Upon check-in at the Amrath you will be given a Welcome letter with some helpful info (our contact info, etc.) and **most importantly**, instructions for check-out, luggage handling, and the transfer.
- Your prepaid hotel includes room taxes, breakfast, mini-bar, and portage.
- For the bus transfer we'll assign you a number from 1 to 70. 1 to 35 will go on the first bus and 36 to 70 will be on the second bus. This number system is designed to help us get **your** luggage on to **your bus**. **But we will need for you to confirm this.** Please make sure you see that your luggage is loaded onto your bus before you board and take a seat. (By the way, it's less than a 15-minute bus ride so just grab any seat on the bus please.)
- Be sure to have breakfast in plenty of time for this transfer. Check-out earlier rather than later ... remember, 70 of your fellow cruisers will be checking out at about the same time!
- Unless you purchased "incidentals" during your hotel stay, your hotel bill should be \$0.00. If you have not purchased anything, just drop your room key (along with letting them know your room number) at the front desk and head outside.

6pm

Bon Voyage Cocktail Party & Briefing From the Captain

[Main Lounge]

We'll be handing out final Program Guides, name badges, and making important last-minute announcements that you won't want to miss. At some point during the party we'll introduce you to our staff and speakers, the ship's Captain, and Hotel Manager Peter Whitehead — all people you want to know! (Trust us.) And if you've never been on a river cruise you will find the Captain's briefing both informative and fascinating. Hotel Manager Peter, among other tasks, will be overseeing your shore excursions, so it's important to hear what he will have to say. Bottomline: to maximize your week, be sure you don't miss this event!

7:30pm

Dinner

Reminder: Beer, wine, and soda are included with every dinner.

Friday, April 13 (“At Sea”)

8am **AMA Cello departs Amsterdam**

8:30am – 10am **Quantum Questions**
Frank Linde, Ph.D. — [Main Lounge]

Welcome to the world of the infinitely small and the weird phenomena that come with it, like slow-running clocks and anti-particles. Dr Linde leads us through the discoveries, concepts, and studies in the puzzling world of quantum mechanics in a session certain to spark your curiosity about the paradoxes and possibilities quantum physics poses.

8:30am – 10am **The Perfect Picture?**
Chris Marquardt — [Aft Lounge]

In this session you will learn what makes a great picture. We will discuss image composition and why certain ways of placing things in your picture will work better than others. You will find out how light is one of the key elements to beautiful photography; how to make the available and artificial light work in your favor; and how location and timing not only impact the composition of your pictures but also have a lot to say about what the light does to your photography.

10:30am – Noon **A Cosmic Voyage Through the Universe**
Pål Brekke PH.D. — [Main Lounge]

The ancients observed and measured the sky. Since Galileo pointed his telescope toward the sky humans have been driven to explore the universe. Larger and more sophisticated telescopes and advanced satellites have given us new eyes to explore deep space, stoking our curiosity. Using spectacular imagery and movies from modern space based telescopes like Hubble, take a cosmic journey to the Sun and planets and feel how it would be to land on Mars. We'll boldly go beyond colliding galaxies and stellar nebulas where new solar systems are born, to visualize distant galaxies, black holes, neutron stars and super novae.

10:30am – Noon **Getting to Know Your First iPad**
Joe Kissell — [Aft Lounge]

Whether you've just received an ancient, 2010-vintage iPad as a hand-me-down or picked up the latest feature-packed model on your way to the cruise, your first few months as an iPad owner are a time of discovery. What exactly can I do with this thing? Is it a tool, a toy, or both? Am I using it to its full potential? In this information-packed session Joe Kissell, author of *Take Control of Working with Your iPad*, begins with a quick tour of the iPad's features and capabilities — with an emphasis on the less-than-obvious things that make it much more than a large iPod touch, and even better (in some ways) than a laptop. You'll then learn the nuts and bolts of customizing your iPad's preferences, syncing personal information, and using the iPad for entertainment, communication, and day-to-day work. Plus, you'll discover the latest apps and accessories that can make your iPad even more powerful and easier to use.



DON'T FORGET European connectors!

1:30pm – 3pm **Multicolor Painting of Proteins, Cells, and Organisms and Their Use in Biomedical Research**

Noah Isakov, Ph.D. — [Main Lounge]

The firefly and its 'glowworms' larvae are small fascinating creatures that can produce bioluminescent light. In recent years, scientists have studied a variety of bioluminescent creatures and developed amazing technologies for the utilization of fluorescent molecules for tracking of proteins and ions within cells and tissues. Significant improvement of these methods was made possible by the development of more sensitive and accurate imaging systems. Learn how studies of a 'glowing' protein in a jellyfish have led the way to a Nobel Prize in Chemistry.

- Usage of fluorescent molecules for in vitro tagging of proteins
- In vivo tracking of molecules and cells using fluorescent proteins
- Technicolor 'Painting' of brain cells

1:30pm – 3pm **iCloud, the new iTunes**
Josimar King — [Aft Lounge]

Of course, iTunes is not going away, however, it's finally being relieved of a major burden. Once, it was the primary way of keeping your Mac and iOS devices in sync with each other, but now, iCloud is in charge. Learn of its full capabilities and limitations as this new, free service will allow you to begin severing all those cables, and help you regain your sanity.

3:30pm – 5pm **Four Horsemen of the Apocalypse: Climatic Problems, Famine, Disease, War, and Mass Death in History**
Patrick Hunt, Ph.D. — [Main Lounge]

Albrecht Dürer's haunting image of a biblical text is more historical than prophetic, but its reference point is nonetheless always a likely reality. Human history is full of cycles of connected catastrophes where human causation is not a necessary scenario. At times, regional or multi-continental environmental disaster is caused by volcanic ash or comet collisions and is followed by climatic perturbations bringing drought or flood. As a result, humans have always been susceptible to food-supply famine, which brings malnutrition, disease, or plague. Subsequent civil chaos like war or migration with collapse and mass death of civilization usually follows somewhere in the equation for apocalypse. This concatenation — confirmed by paleoclimatology — may be seen as possibly ending the Bronze Age as well as the Late Roman Empire and again in part in the Middle Ages. An article by Dr. Hunt written in early 2009 carefully outlines the logical sequence of apocalypse in human history.

3:30pm – 5pm **The Tech Side of Photography**
Chris Marquardt — [Aft Lounge]

Find out how to get the most out of your existing equipment. We will explore the strengths and weaknesses of your camera and of your lenses. You will learn about the advantages and specifics of the RAW, TIF, and JPG formats; and we will discuss the two "magic triangles" that center around exposure and depth of field which are essential tools for your creative toolbox.

6pm – 7:30pm **Malaria and the Quest For an Effective Vaccine**

Noah Isakov, Ph.D. — [Main Lounge]

Malaria represents a major public health problem causing ~250 million cases of fever and almost one million deaths per year. Effective Malaria vaccines are still missing and many of the common anti-malarial drugs are losing effectiveness as the parasite evolves high levels of drug resistance. The disease is transmitted to humans by infected Anopheles mosquito bites, during which the Plasmodium parasite is being injected into the blood where it replicates within the red blood cells. Continuing a global effort to prevent malaria infections, scientists are utilizing several different approaches in order to develop new and effective anti-malaria vaccines. The ambitious plans to end all malaria deaths by 2015 are backed by significant financial support from the World Bank and the Bill and Melinda Gates Foundation.

- Biology and the life cycle of the Plasmodium — the Malaria causing agent
- Prevention, diagnosis, and treatment of Malaria
- Progress and obstacles in the development of effective anti-Malarial vaccine

6pm – 7:30pm **Video To Go: Part 1**

Wally Cherwinski — [Aft Lounge]

Today's camcorders are better, smaller and easier to use and video is now built into most mobile devices. With little more than your Mac's editing tools and a dash of creativity, you can easily recapture your travels and adventures in an elegant way. In two sessions, Wally will cover some hands-on techniques you can use to plan, shoot, and shape images into lasting memories. We'll start out with tips to use during your trip and find out how to see and capture the best clips. Plus, you'll learn how to set your own video style and mood to create a polished product to share with family and friends. We'll also cover some useful equipment, tools and resources to extend your video skills.

Saturday, April 14 (Cologne, Germany)

7:30am – 12:30pm **AMA Cello docked in Cologne, Germany**

8:30pm **Arrive Koblenz; AMA Cello docked in Koblenz, Germany until 8am, Sunday April 15**

1:30pm — 3pm **The Stormy Sun — How Does it Affect our Technology Based Society**

Pål Brekke, Ph.D. — [Main Lounge]

Until about 100 years ago, solar storms could pass by without humans noticing the damage these storms do. Today it's a different story. More than 1,000 satellites are operating in space and the loss of a signal from any one of them can have serious consequences on weather forecasts, communication, navigation, mapping, search and rescue, research, and military surveillance. Join Dr. Pål Brekke and find out how predicting solar weather isn't just an academic exercise. Learn about the satellites that monitor the Sun 24x7, providing space weather forecasts and a reliable early warning about solar storms that may hit the Earth, so that satellite systems, electrical grids, and other services can minimize potential disruptions. You can keep an eye on solar weather, too, with Dr. Brekke's tips and pointers on sources. From weekend weather forecasts to cell phones to your GPS, solar weather impacts our lives, so find out what's hot in sun science.

1:30pm – 3pm

You Don't Know Lion

Josimar King — [Aft Lounge]

With so many shiny, new features, and that pretty, iPad-like interface, you may feel right at home with Mac OS 10.7. However, are you thinking you probably aren't as efficient or effective as the OS has been designed to allow you to be? Josimar will lead the way with his favorite and deep functions which are guaranteed to make you feel like a professional.

3:30pm – 5pm

Tracking Hannibal: Stanford Alpine Archaeology Project 1994–2010: National Geographic Society Hannibal Expedition 2007–08

Patrick Hunt, Ph.D. — [Main Lounge]

Everyone remembers Hannibal brought elephants over the Alps but the mystery of his route is still often difficult to resolve. Stanford's research on Hannibal's intrepid march in 218 BCE has been conducted annually since 1994. We attempt to match ancient source texts like those of Polybius and Livy with local and regional topography of the journey from Spain to Italy through the Alps. Sponsored in part by the National Geographic Society's Expedition Council, our topographical archaeology and geomorphology studies offer some answers to where and how Hannibal marched an army to surprise and overcome the Romans on at least five battle sites. Newest data from field research, including satellite and other imaging, is presented in advance of a new book on Hannibal.

3:30pm – 5pm

Coloring Outside the Lines with Your iOS Device

Joe Kissell — [Aft Lounge]

Of course you can make phone calls and read email with your iPhone, play tunes and games on your iPod touch, watch movies and surf the Web on your iPad, and run hundreds of thousands of entertainment and productivity apps on any iOS device. But what makes these products even more exciting is that you can put them to all sorts of unconventional uses that can enhance your personal and professional life. This intermediate-level session will cover interesting and novel ways to use your iOS devices that range from the playful to the powerful. Joe will demonstrate how to run Windows and Linux applications on an iPad, use an iOS device as a remote control for nearly anything, perform stunning artistic feats, use multiple iOS devices together, increase your productivity in clever ways with Siri, work around irritating network and media limitations, and much more. You'll amaze your friends and confound your enemies with the tips, tricks, and techniques we cover here.

6pm – 7:30pm

Past and Present at CERN

Frank Linde, Ph.D. — [Main Lounge]

To orient us to the Large Hadron Collider (LHC)'s significance, Dr. Linde recaps the highlights of CERN's "low energy" LEP accelerator which studied the Standard Model of particle physics. Learn how physicists think the LHC experiment will address current challenges in particle physics: the origin of particle masses; the mystery of dark matter and the apparent absence of antimatter in our everyday life.

6pm – 7:30pm

Post Processing

Chris Marquardt — [Aft Lounge]

You will learn the general concepts of a good digital workflow that will enable you to speed through hundreds or even thousands of pictures in a very short time, helping you to manage that nagging image backlog. This covers everything from importing your pictures through effectively managing them on your Mac, tickling the highest possible quality out of your photographs, and exporting them to the destination of your choice, be it a live slide show, a website, a video, or even just a simple collection of JPG files. We will use Adobe Lightroom for this session — there is a free 30-day trial available.

Sunday, April 15 (Rüdesheim, Germany)

8am

AMA Cello departs Koblenz, Germany

2pm – 9:30pm

AMA Cello docked in Rüdesheim, Germany

8:30am – 10am

The Northern Lights — A Message from the Sun

Pål Brekke, Ph.D. — [Main Lounge]

What is more beautiful on a cold winter night than catching a glimpse of the aurora borealis, “the northern lights”, dancing across the sky? This stunning phenomenon is embedded in the mythology of many cultures and has been characterized as everything from dancing spirits to God’s anger. But no one suspected a connection with the sun until a little more than a hundred years ago, when an eccentric Norwegian scientist, Kristian Birkeland, realized that the Sun bombards the Earth with particles. Dr. Brekke’s multimedia session spans the myths and the modern science behind the northern lights. We will discuss coronal mass ejections, the magnetosphere and solar wind, and how solar particles are captured by Earth’s magnetic field and guided to the magnetic poles. Learn where to see the aurora, and how to predict when it will appear. Enhance your appreciation for a phenomenon that has fascinated through the ages.

8:30am – 10am

iPad Kung Fu for the Extreme Mac Geek

Joe Kissell — [Aft Lounge]

Are you a true iPad junkie — or would you like to be? Whether you’re looking to leave your laptop behind and use your iPad for complex business tasks, create the ultimate home media experience, or push this gadget to its limits just because it can be done, this session is for you. After donning our propeller beanies, we’ll start where ordinary apps leave off and march directly into serious geek territory. Jailbreaking? Check. Flash? No problem. Unsupported features? Hardware hacks? Warranty violations? Oh yes. You’ll even learn how to hedge your bets and restore a hacked iPad if you get into trouble.

10:30am – Noon

Particle Physics Matters

Frank Linde, Ph.D. — [Main Lounge]

What has particle physics done for you today? Dr. Linde discusses the societal benefits of his research. Learn how the particle physics field leads to the development of novel technologies and applications in medicine, information technology, energy, finance and commerce, and more. Find out how basic particle research, whose significance might not be obvious, touches on all our lives.

10:30am – Noon

The Creative Side of Photography

Chris Marquardt — [Aft Lounge]

Photography has two sides, a technical craft and the creative side. We will take a step back and look at some of the rules that many of us use when shooting. You will learn how you can bend these rules to add new facets to your photography. We will also explore the fascinating psychology of photography, and how we can use simple methods to influence what the viewer will experience when looking at our pictures. Finally we will explore how we can help our creative photography side by looking back at where this medium originally came from: the analog side of the equation.

6pm – 7pm

Cocktail Party — free drinks for all!

[Main Lounge]

Monday, April 16 (Mannheim)

7:30am – 1:30pm

AMA Cello docked in Mannheim

7:30am – 1:30pm

OPTIONAL TOUR (\$275):

Max Plank Institute for Astronomy (MPIA)

Charlie & Aaron — [Meet ashore at the buses]

Meet Charlie and Aaron ashore, at the buses for Heidelberg, right after an early breakfast. Our tour will include a visit to the Max Planck Institute for Astronomy, a presentation at the Center for Astronomy Education and Outreach including a planetarium show about the latest astronomical research done in Heidelberg, followed by a brief visit to the historical instruments of the Landessternwarte founded by Max Wolf in 1898. We’ll conclude our excursion with a memorable lunch in downtown Heidelberg.

2pm – 3:30pm

Science in Archaeology:

New Perspectives on Old Problems

Patrick Hunt, Ph.D. — [Main Lounge]

Ötzi the Iceman was discovered as a frozen 5300 year-old “ice mummy” high in the Alps in 1991. Archaeometry, the application of the natural and physical sciences to archaeology, plays a key role in garnering information from such discoveries. For example, we now know precisely what Ötzi’s last meal was, where he hiked (from the pollen on his clothes and what intestinal parasites he carried), where his stone tools were from, and how he met his death. We also know his DNA including possible ancestors or descendants. Ötzi’s case is just one example of how forensic investigations in microbiology, chemistry, physics, and geology allow deeper characterizations of precise details to resolve archaeological problems.

2pm – 3:30pm

iWork Double Vision

Josimar King — [Aft Lounge]

Mac and iPad aren’t all fun and games. Sometimes, we gotta work too. We have evolved from expecting to only be productive at home or the office as we sit at a desk and type away for hours, but with *iWork for iPad*, we can get work done anywhere we are. Though it’s not intended as a computer replacement for productivity, it does play nicely with *iWork for Mac* to allow us to take advantage of the strengths each platform offers to get tasks done faster than ever before. Come harness the power of making *iWork for Mac* and *iWork for iPad* work together for you.

4pm – 5:30pm **Does the Sun Contribute to Climate Change?**

Pål Brekke, Ph.D. — [Main Lounge]

Over many years, numerous attempts have been made to link various aspects of solar variability to changes in the Earth's climate. Since the Sun's output of electromagnetic radiation and energetic particles varies, and since the Sun is the ultimate driver for the climate system, it seems natural to link the two together and look for the source of climate variability in the Sun itself. Over the past 150 years the Earth has experienced a warming of about 0.7° C. In the same period both the concentrations of greenhouse gases in the atmosphere and the level of solar activity have increased. Are they related phenomenon? It's not a trivial task to detangle the two effects. To further complicate the picture there are several ways the Sun may impact the climate: through the electromagnetic radiation (Total Solar Irradiance), through the direct solar wind via magnetosphere/atmospheric coupling, and/or through galactic cosmic radiation, which is modulated by solar shielding and possibly influences cloud formation. Dr. Brekke will summarize our current understanding of these mechanisms and will discuss his opinion that the future will bring surprising answers as to why solar activity varies and about the relationship between solar activity and the climate on Earth.

4pm – 5:30pm **Advanced iPhoto and iMovie, Not For Dummies**

Josimar King — [Aft Lounge]

For the first time in human history, we're effortlessly able to immediately capture an event then instantly share it with the world. iPhoto and iMovie for Mac, iPhone, and iPad allows us to do this in a variety of ways. But which method is useful for which purpose? With so many choices, each process has its advantages. This class will cover using the advanced functions within iPhoto and iMovie, how they work back and forth with their counterparts on iOS, and the best workflow from capturing to publishing.

6pm – 7:30pm **Antibodies as 'Guided Missiles' in Cancer Immunotherapy**

Noah Isakov, Ph.D. — [Main Lounge]

Antibody molecules are found in enormous quantities in almost all our body fluids. The main function of antibodies is to identify foreign antigens, such as bacteria, and eliminate them. The number of different antibody molecules exist in our body exceeds by far the total number of our genes. This is made possible by a unique mechanism of generation of diversity in the antibody molecules. It is intended to protect our body from almost all possible disease-causing agents. Improved techniques for production of monoclonal antibodies that are directed against specific antigens and their in vivo utilization as delivery systems of drugs provide hope for the prevention and cure of many types of cancer diseases.

- Structure and function of the antibody molecule
- Preparation of monoclonal antibodies against tumor cell antigens
- In vivo guiding of 'armed' antibodies to cancer cells.

6pm – 7:30pm **Speeding Up Your Mac**

Joe Kissell — [Aft Lounge]

Does your Mac feel like it's lost the zip it had when it was brand new? Do you wish you could squeeze extra life out of an older but still functional Mac rather than investing in the latest model? Or are you a power user looking to put together the ultimate high-end Mac configuration for work or play? Nearly every Mac's speed can be boosted considerably and inexpensively if you know what you're doing. In this practical, hands-on session, best-selling

author Joe Kissell offers you the results of his extensive research and experimentation in the area of Mac performance. He'll show you how to identify the exact causes of slowdowns and measure your Mac's speed before and after making changes so you know exactly what their effect was. You'll systematically root out the gremlins that chew up CPU cycles, RAM, and disk space; discover numerous tricks to improve responsiveness; and learn how to speed up your email, Web browser, network, and peripherals. You'll also explore the benefits of hardware upgrades such as SSDs and extra RAM, and get to the bottom of some of the most common and pervasive performance myths.

Tuesday, April 17 (Strasbourg; no classes this day)

4:30am – 4am (April 18) AMA Cello docked in Strasbourg, France

6:30pm – 7:30pm **Cocktail Party with Insight Cruises CEO Neil Bauman**

[Main Lounge]

Insight Cruises' CEO Neil Bauman joins our cruise today and will be hosting a cocktail party. Neil looks forward to seeing old friends and greeting those new to Insight Cruises.

Wednesday, April 18 (Breisach)

1pm – 9pm **AMA Cello docked in Breisach, Germany**

8:30am – 10am **Medicine in the Ancient World**

Patrick Hunt, Ph.D. — [Main Lounge]

Egypt, Mesopotamia, Greece, and Rome all had long medical traditions. In some ways, ancient medicine sometimes appears surprisingly similar to modern medicine. At other times, it exposes what we regard as deep superstition and ignorance. The ancient Egyptians, Mesopotamians, Greeks, Romans, and other cultures often asked similar questions to the ones we pose about health and disease today. And they began developing surgical processes that still exist in some form, while also practicing pharmaceutical and psychiatric approaches that we can recognize in modern science. This seminar offers a survey of ancient medicine, looking at both ancient cultures and pioneering individuals. Encounters with ancient doctors like Hippocrates, Celsus, Dioscorides, and Galen and exploration of important pre-modern texts can provide insight. Medical instruments have also been preserved from Pompeii to Rimini and other sites where ancient medicine had a successful role in the past.

8:30am – 10am **Requirements for Inter-Cellular Communication Networks and Intracellular Signaling Pathways in Multi-Cellular Organisms**

Noah Isakov, Ph.D. — [Aft Lounge]

Single-cell organisms, such as bacteria, can respond to environmental signals mediated by chemicals, pH, temperature, and osmolarity in a number of different ways. The existence of multicellular organisms is dependent in addition on a plethora of physiological signals, receptors, and biochemical signal-transduction mechanisms. These means of signal transduction enable cells to communicate with each other in order to coordinate activities of tissues and organs for the benefit of the entire organism. The ability of cells to recognize and correctly respond to their microenvironment is the basis of development, tissue repair, and immunity. As a result, errors in cellular information processing can cause severe diseases,

continued

including cancer and autoimmunity. Understanding the mechanisms of cell signaling will enable the design of effective drugs and treatments for the cure of diabetes and a variety of other diseases.

- Receptors, ligands, and communication between cells
- Regulation of cell behavior by signal transduction across the cell membrane
- Changes in cell communication and signal transduction mechanisms caused by disease

9:15am – 10:15am **Video To Go: Part 2** (please see description on page 3)
Wally Cherwinski — [Dining Room]

10:30am – Noon **Astroparticle Physics**
Frank Linde, Ph.D. — [Main Lounge]

Parked at the intersection of particle physics, astronomy, and cosmology, astroparticle physics is evolving rapidly. Dr. Linde guides you through the latest in the strange terrain of astroparticle physics research rooted at CERN. Hear how deep-sea neutrino telescopes search for ripples in the space-time fabric itself; and huge cosmic-ray observatories are seeking answers to the big questions.

10:30am – Noon **Let Me Tell You a Story ...**
Josimar King — [Aft Lounge]

Anybody and everybody can make a home movie now, just look at YouTube. The problem is, it feels like barely 2% of what's on YouTube is even worth watching. Time to learn how to separate your vacation memories from everyone else's, whether it is meant for the world, or just the people you care about. Watching home movies and photo slideshows shouldn't be a chore for any viewer, and this class will teach you the importance of arrangement, and above all, timing to tell a captivating story and truly engage your audience.

6pm – 7pm **Farewell Party**
[Main Lounge]

Thursday, April 19 (Disembark)

9am **Buses departs for Paris (\$ n/a) and Geneva (\$150)**
Buses depart for Paris and Geneva/CERN this morning — exact scheduling will be announced onboard. **For those of you not doing either of the above**, the best Cruise Manager ever, Peter Whitehead, will be dispersing a disembarkation questionnaire early on in the cruise. Be sure to return this to him (or drop at the front desk) as soon as possible so that Peter can cost-effectively arrange your required transportation.

CERN Schedule (Geneva)

- **transfer from Basel (end of cruise) to our Geneva hotel (April 19)**
- **hotel (3 nights) — the nights of April 19, April 20, and April 21**
- **transfer from hotel to CERN and back to the hotel on April 20**
- **lunch at CERN**
- **cocktail party the evening after our visit to CERN (April 20)**
- **free day in Geneva; transfers to/from downtown provided (April 21)**
- **transfer to airport for return home (April 22)**

SPEAKER PROFILES

Pål Brekke holds a Ph.D. in solar physics from the University of Oslo. His work focused on dynamical aspects of the Sun and measuring variations in solar UV radiation using observations from sounding rockets and the space shuttle Challenger. He worked for the European Space Agency between 1999 and 2004 as the SOHO Deputy Project Scientist stationed at NASA/Goddard Space Flight Center. He was also in charge of outreach and media activities, making SOHO to one of the most well known current satellite projects. His present position is as Senior Advisor at the Norwegian Space Centre.

Dr. Brekke received a Fulbright Fellowship in 1994, ESA's Exceptional Achievement Award in 2002, and Laurels for Team Achievements from the International Academy of Astronautics in 2003. He has served on several NASA Review Panels and as referee for various scientific journals.

He is a Norwegian delegate to different ESA Programme Boards and to the International Living With a Star programme. He is a member of the University Board at the University of Tromsø.

Professional publications: 42 refereed journals, 69 papers delivered to scientific meetings (proceedings), and 22 popular science articles. His one book is *The Explosive Sun: Source of Light, Life and Stunning Images* (Springer 2011).

Dr. Wally Cherwinski is a videographer based in Ottawa, Canada. He brings over 35 years' experience in communications, from print journalism to documentary film to communications planning and management. Wally holds both a Ph.D. in Organometallic Chemistry and a degree in journalism and communications. He spent a portion of his science career conducting research and teaching at the University of Cambridge, England while doubling as a freelance photographer and writer. His background includes over 10 years managing communications for the Canadian Space Program including the Canadarm (space shuttle and space station) project, the Canadian Astronaut Program, and the establishment of the Canadian Space Agency. In 2004, he was nominated for Canada's prestigious Michael Smith Award for the Public Awareness of Science.

In the days of 16mm film, he wrote and directed several documentaries including projects with Canada's National Film Board. He has been a Mac user since 1984 and has 22 working Macs (not to mention Newtons, iPods, iPhones & iPads) in his Apple "museum". He has been an avid videographer since video moved onto the desktop and has presented video workshops at Macworld in San Francisco and at Macintosh User Groups in Canada. He is sailing on his fifth MacMania cruise.

Patrick Hunt has a Ph.D. from the Institute of Archaeology, UCL, University of London, in 1991 in archaeological science. He has been teaching humanities, archaeology, mythology, and the arts at Stanford University since 1993. He directed the Hannibal Expedition, sponsored in 2007–08 by the National Geographic Society's Expedition Council. He has been Director of the Stanford Alpine Archaeology Project from 1994–2011. Hunt is also a Past President of the California Classical Association (1986–87) and President since 1995 of the Stanford Society of the Archaeological Institute of America. He has been a Fellow of the Royal Geographical Society since 1989 and is also a National Lecturer (2009–11) for the Archaeological Institute of America. In addition to his current archaeological research on Hannibal, ancient medicine, and ancient technology Hunt is a regular featured scholar in film documentaries, appearing on National Geographic Explorer TV, PBS, Spike TV, and The History Channel among other broadcasts and on radio. He has contributed to and advised multiple documentaries on Hannibal, including BBC productions. Hunt is also Editor-in-Chief of an innovative online history publication, *Electrum Magazine*. To date Hunt has published 50+ peer-reviewed journal and encyclopedia articles and entries such as *World Archaeology*, *Studia Phoenicia*, *Encyclopedia of Ancient History*, *African Archaeology Review*, and *Journal of Roman Archaeology* including on Hannibal, Carthage, and the ancient world and another 50+ articles in online contexts such as Stanford's *Philolog and Archaeolog*. He has authored 11 books with several forthcoming on Hannibal, history, and archaeological science in 2011–12.

