

ANNUAL REPORT 2012

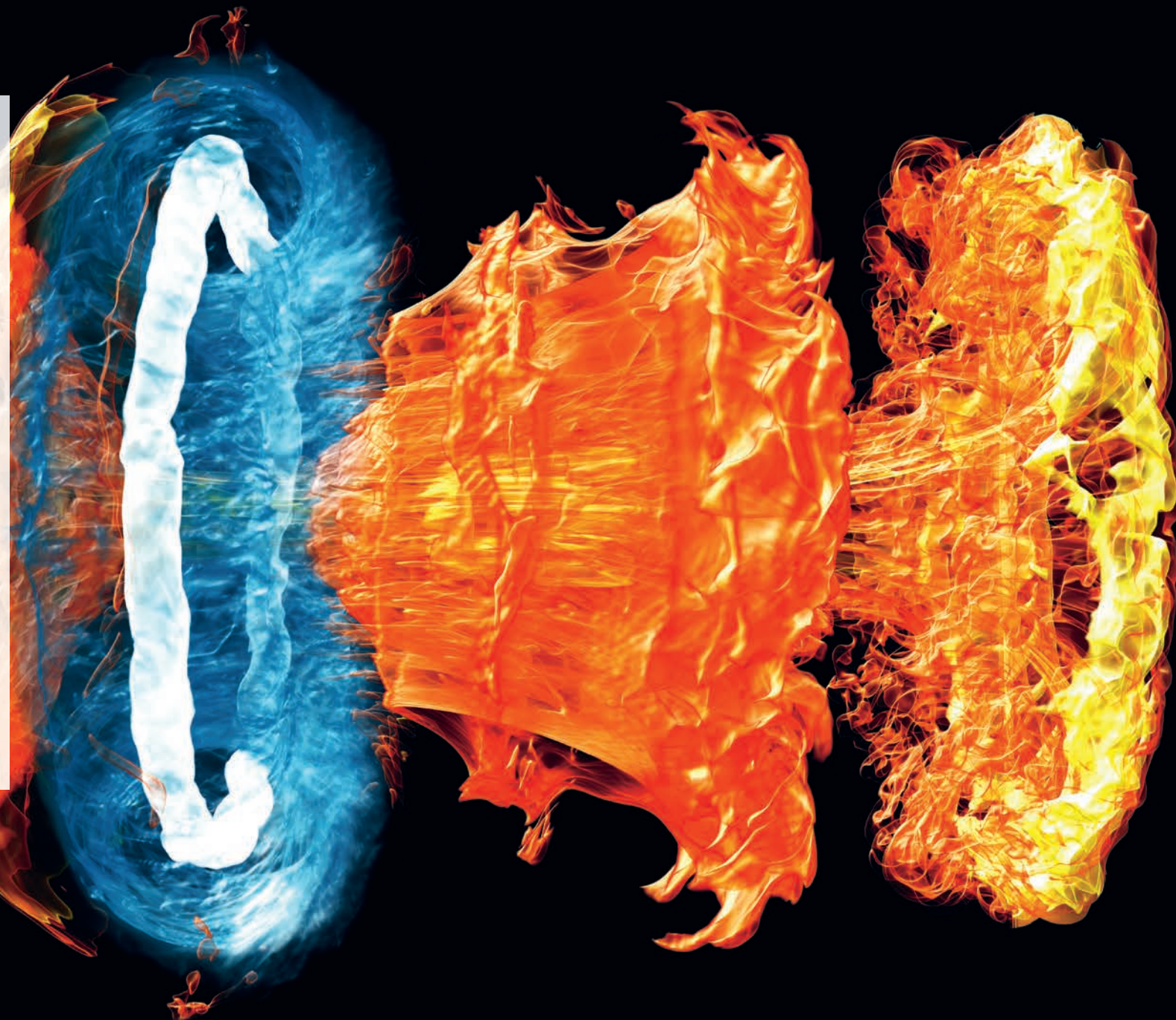
SHAPING THE FUTURE THROUGH KNOWLEDGE





EXPLORATION OF THE UNKNOWN IN THE SEARCH FOR UNPREDICTABLE BREAKTHROUGHS IS ESSENTIAL TO FUNDAMENTAL SCIENCE. THROUGH THIS EXPLORATION, COMBINED WITH ACADEMIC EDUCATION AND RESEARCH, ETH ZURICH CONTRIBUTES TO UNRAVELLING THE GRAND CHALLENGES OF OUR MODERN SOCIETY. TO BOOST THOSE EFFORTS, THE ETH ZURICH FOUNDATION IS DETERMINED TO CREATE SUSTAINABLE RELATIONSHIPS WITH COMPANIES, FOUNDATIONS, AND PRIVATE DONORS IN FAVOUR OF ETH. HENCE, I WOULD LIKE TO THANK ALL OF YOU FOR YOUR TRUST AND BELIEF IN US AND OUR ABILITIES TO SHAPE THE FUTURE.

Prof. Dr. Ralph Eichler
President of ETH Zurich



Scientific gas simulation of a shock-bubble interaction at the Computational Science & Engineering Laboratory (CSE), ETH Zurich, supported by the Swiss National Supercomputing Center (CSCS)

Dear Donors and Partners

Philanthropy is rather personal. It is based on values and intrinsic motivations that are moulded by one's own personal story. The concept of philanthropy is not a new feature in the history of ETH Zurich. Indeed, much of what ETH is today exists only because of enlightened benefactors in the past. For instance, the *World Food System Centre*, which builds on the expertise of ETH Zurich to address the existing and emerging challenges at the nexus of global food and nutrition security, food production and

processing. The competence centre forms a platform for interdisciplinary teams to collaborate on research, education, and outreach activities in line with strategic focus areas.

"THE VALUE OF A MAN RESIDES IN WHAT HE GIVES AND NOT IN WHAT HE IS CAPABLE OF RECEIVING."

Albert Einstein
Alumnus and Professor of ETH Zurich

You make an investment in ETH's future, the benefits of which, while very real, cannot easily be measured

or predicted with accuracy. All of the case studies of philanthropic investment demonstrate the imaginative leap that philanthropists make when deciding to make a gift. To invest in promise, rather than in simply meeting an immediate need, requires belief in the recipient, as well as a generous heart. Your gifts enable ETH to do things that wouldn't otherwise be possible: to break new ground in education and research, to take risks, and to sustain excellence.

Your investments also support the key autonomies of our great University: to choose the students and the academic staff who will benefit and contribute most; to design and deliver our teaching programmes; and to pursue scholarship and research in the directions we believe will best serve our goals of outstanding education and pioneering discovery.

The best way to understand the impact of philanthropy is to see it at work. In this annual report, we want to offer you a glimpse of the incredi-

ble work that you have helped to support.

We would like to express our gratitude for your dedication, your visionary spirit, and your philanthropic investments in ETH Zurich, the Swiss motor for innovation. Frankly, winning your support is good for us. It stops us from becoming insular and self-regarding. It demands that we explain clearly what we are doing and why. It renews the confidence in our joint mission and reinforces our responsibility to nurture our fundamental values.



Jürgen Dormann
Chairman of the Board of Trustees

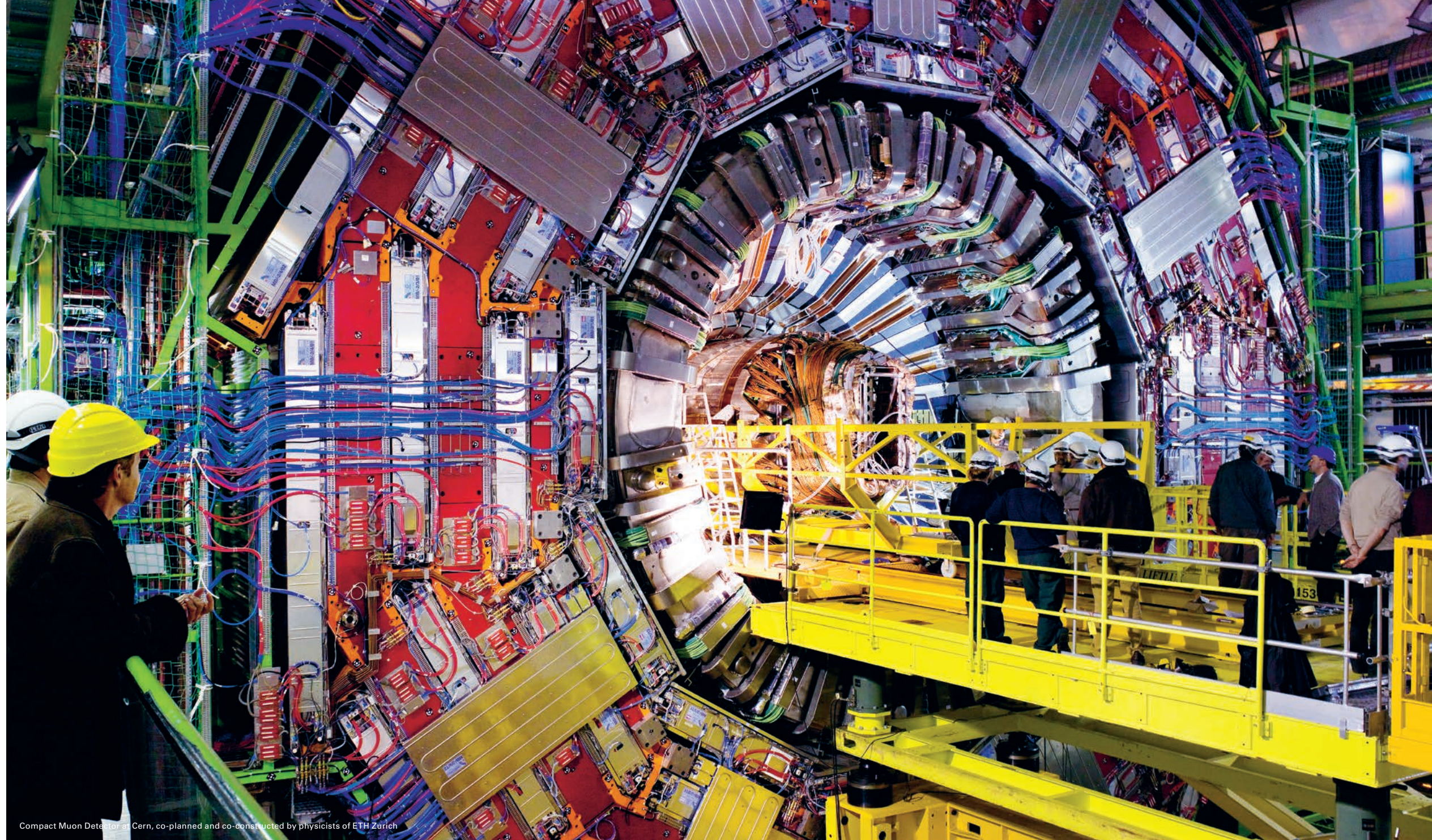


Dr. Donald Tillman
Managing Director

With the support of companies, foundations, organizations, and private donors ETH Zurich wants to create momentum in strategic areas of research and teaching. Therefore, the ETH Zurich Foundation is needed as an independent, non-profit organization connecting all stakeholders. Our goal is to build relationships that support ETH in reaching its scientific and social visions, and we are devoted to living up to the highest standards.

You make a difference! The impacts of your philanthropic investments are perceptible in every facet of ETH Zurich.

17 Professorships, 143 Excellence Scholarships, 24 Pioneer Fellowships, and 4 Rössler-Laureates: this is an excerpt of your track record of successfully endorsing gifted young scientists. The funding of strategic scientific initiatives fuels cutting-edge research that allows ETH to thrive. State of the art laboratories, which you've supported, attract the best scientists, teachers, and students. And finally, the force of philanthropy is easily found in the curiosity and fascination displayed on the faces of guests at ETH events and exhibitions.



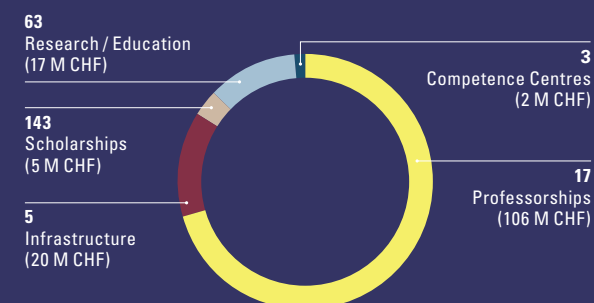
Compact Muon Detector at Cern, co-planned and co-constructed by physicists of ETH Zurich

Impact of support

CHF 150 MILLION

SINCE ITS ESTABLISHMENT, THE ETH ZURICH FOUNDATION HAS BEEN ABLE TO ALLOCATE **CHF 150 MILLION** TO ETH ZURICH ON BEHALF OF THEIR BENEFACTORS AND PARTNERS, OF WHICH **CHF 58 MILLION** WERE ASSIGNED IN 2012.

Allocation and amount according to campaign priorities



"WE NEED SHARP-WITTED, CREATIVE, AND UNCONVENTIONAL SPIRITS IN ORDER TO SOLVE THE GRAND CHALLENGES OF OUR SOCIETY. OUR COMMITMENT TO ETH ZURICH IS AIMED AT CREATING THE NECESSARY DEGREE OF FREEDOM TO PROMOTE AND EDUCATE SUCH HUMAN BEINGS."

Michael Hilti
Board of Directors, Hilti AG

Thank you to all those who have supported us; your trust and commitment inspire us. Your support enables ETH Zurich to lead in innovative research and education in a highly competitive international setting. In this way, you make a significant impact and shape the future. We would also like to express our thanks to those who do not wish to be named.

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Dr. Martin Riediker
Dr. sc. Nat. Alfred Riggenbach
Hans Rudolf Rihs
Rolf Rihs
Dr. Eduard Rikli
Marcel Rikli-Melliger
Dr. Peter Ritz
Dr. Simone Rizzi
Rudolf Rodel
Dr. Anton Roeder
Dr. Hendrik Rohler
Dr. Dominique J.S. Rohner
Dagmar M. Kopse Rolli
Willi Roos
Kristian Roose
Prof. Dr. Alfred Rösli
Dr. Max Rössler
Willi Roth
Heini Röthlin
David Ruch
Dr. Helmuth Rudigier
Dr. Rainer A. Rueppel
Andreas Rüesch
Dr. Richard Ruf
Dr. Walter Ruf
Urs Rüfenacht
Christian Rufer
Dr. Sven B. Rump
Remigius Rupp
Steffen P. Russak
Johannes C. Rutteman
Daniele Ryser
Peter Rysler
Prof. Dr. Rudolf Saager
Dr. Sairos Safai
Anne Lise Sagen Major Alesund
Robert Sägesser
Suresh Sahgal
Alberto Salerno
Diego Salmeron
Rino Salvadé
Dr. Jean-Jacques Salzmann
Dr. Urs Saner
Dominik Sauter
Peter Scartazzini
Milutin Scepan
Guido Schaefer
Marc Roger Schaer
Hans R. Schaffer
Silvan Schaller
Ernesto Schaltegger
Reto Schäppi
Dr. Adrian Schär
Dominique Cyrill Schär
Werner Schär
Dr. Jürg Schatzmann
Martin Schaub
Dr. Max Schellenbaum
Dr. Matthias Schellenberg
Dr. Ganda G.J. Schenk
Dr. Markus Schenkel
Susanna Schenkel-Würmli
Hans Ulrich Scherrer
Sandra Scherrer
Dr. Guido Schilling
Prof. Dr. Willy Schlachter
Prof. Dr. Louis Schlapbach
Christian Schlatter
Hans-Jörg Schlegel
Peter Schlub
Dr. Hans-Peter Schlumpf
Christian Thomas Schmid
Daniel Claude Schmid
Dr. Eduard Schmid
Christof Stokar
Gerhard E. Schmid
Karl Otto Schmid
Dr. Martin P. Schmid
Matthias Schmid
Ulrich Schmidhauser
Dr. Hanno Schmidheiny
Josef X. Schmidlin
Toni F. Schmidt
Dr. Tom Schmitz
Hans-Peter Schneebeli
Adrian Schneeberger
Beat Schneeberger
Adrian Cornelius G. Schneider
Dr. Markus Schneider

Daniel Schnellmann
Hans J. Schnetzler
Marcel Schnider
Thomas Schöb
Rolf Rihs
Dr. Raymond Scholer
Brian Suter
Marco Schommer
Karl Schönbächler
Peter Schöni
Dr. Gian Franco Schubiger
Kurt Schudel
Dr. Anton Schuler
Karin Schulte-Wermeling
Klaus Schumacher
Beat Schüpbach
Alfred Schürch
Kristian Schürch
Albrecht Schütte
Jörg Schwander
Stefan Andreas M. Schwarz
Christoph Schwarzenbach
Hans Ulrich Schwarzenbach
Patrick Schwärzler
Dr. Margrit Schwarz-Speck
Gerhard Schweitzer
Dr. Jürg Schweizer
Dr. Paul J. Schwyn
Alois Seeholzer
Martin Seiler
Beat U. Semadeni
Gian Luca Semadeni
Rolf Sethre
Dr. Paul Sevinç
Ernst Sidler
Rolf Siegenthaler
Dr. Christian Sigg
Prof. Dr. Richard Sinniger
Mischa Siroky
Kartik Sivaraman
Evanghelos Skopelitis
Dr. Peter Skrabal
Daniel Smole
Andreas Solter
Patric Somlo
Dr. Herbert Somm
Dr. Hans Sonderegger
Florian Sorg
Dr. Milos Sormaz
Dr. Christian Spagno
Theodor Spaltenstein
Dr. Oliver Sergij Speer
Silvan Schaller
Prof. Dr. Kurt R. Spillmann
Peter Spinatsch
Peter Spoerri
Max Sprenger
Prof. Dr. Sarah M. Springman
Dr. Ursula Sprung
Dr. Ulrich Spycher
Dr. Alois Stadler
Urs Stahel
Walter R. Stahel
Kurt Stamm
Christian Stammbach
Prof. Dr. Rudolf Starkermann
Dr. Andreas Stäubli
David Stauffer
Hans Steger
Dr. Jürg Steger
Peter Stehlik
Beda Steiner
Robert Steiner
Prof. Dr. Aldo Steinfeld
Dr. Fabian Stöckli
Othmar Stöckli
Rudolf Stöckli
Christof Stokar
Hans Stoller
Theodor Stolz
Hans Strassmann
Prof. Dr. Emanuel E. Strehler
Adrian Streuli
Lukas Emanuel Stricker
Pericle Strozzi
Jürg Stucki
Charles Studer
Dr. Wolfgang G. Sturny
Ronnie Sturzenegger
Dr. David B. Stüssi
Matthias Stüssi
Rudolf Stüssi-Hodel

Dr. Raphael Suard
Dr. Hiro Sugaya
Fritz Sulser
Hans-Peter Sulser
Leonhard Süry
Brian Suter
Daniel Suter
Lukas Suter
Prof. Dr. Ulrich Werner Suter
Dr. Johann Sutter
Walter Sutter
Orjan Sviden
Bálint Szentkúti
Reto Taborgna
Paolo Tamò
Dr. Marco Terzer
Jon Andri Tgetgel
Dr. Thomas Thaler
Benedikt Thielemann
Dr. Hans-Peter Thomi
Antonio Tiberini
Edy Toscano
Yves Tournier
Peter Trauffer
Dr. Adelrich Tresch
Marco Triacca
Animesh Trivedi
Martino Trosi
Prof. Dr. Gerhard Tröster
Thomas Trüb
Giulio Trucco
Dr. Hans Tschamper
Walter Tschumi-Stalder
Dr. Kai Markus Udert
Dr. Steve Udriot
Daniel Uhlmann
Walter Ulrich
Dr. Atsushi Urakawa
Dr. Pierre A. Urech
Heinz Ursprung
Ibrahim Uslu
Dr. Erich Utzinger
Nicola Valenti
Dr. Davide Valtorta
Dr. Flaviano Valvason
Walter van Laer
Maurizio Vasco
László Vaszary
Carlos Velásquez
Meindert Edson Versteeg
Dr. Walter Vetsch
Dr. August Vieli
Raul Vielma
Istvan Vig
Thomas Villinger
Marc Vinzens
Marc Flurin Vinzens
Dr. Moritz Vischer
Dr. Jean Vodoz
Heiner Vogel
Dr. Markus Albert Vogel
Thomas Vogel
Thomas Hans Vogel
Prof. Dr. Alfred Vogelsanger
Benjamin Vogler
Christian von Ah
Brigitte von Burg
Claudio von Felten
Prof. Dr. Hans von Gunten
Hugo von Gunten
Dr. Nicolas von Schumacher
Ruedi Vontobel
Dr. Kurt Vorburger
Peter Vrkljan
Dr. Alfred Wahl
Andres C. Waibel
Philipp Wälchli
Emil Walder
Fritz Waldmeier
Dr. Robert Paul Walser
Rudolf Walter
Paolo Andrea Walty
Max Wandeler
Julie Ehenzo Wanjala-Nönnig
Kai Warszas
Rudolf A. Wassmer
Erwin Weber
Rudolf W. Weber
Dr. Thomas Weber

Urs Weber
Manuel Karl Wegmann
Theo Wehner
Dr. Bernhard Wehrli
Dr. Christoph Johannes Wehrli
Reto Weibel
Walter Weibel
Christiane und Dr. Nicolaus-Jürgen Weickart
Erica Weidmann
Andreas Weiss
Franz Weiss
Kilian Weiss
Madeleine Simmler Weiss
Rodrigo Weiss
Robert G. Weller
Hans Wenger
Dr. Fritz Wenk
Paul Wenk
Cédric Wermelinger
Prof. Dr. Henri Wermus
Dr. Hans Rudolf Wettstein
Karl Wickart
Beat Widin
Dr. Handoko Widjaja
Dr. Hansruedi Widmer
Alphons Wiederkehr
Hans-Rudolf Wiederkehr
Dr. Marco Wieland
Michael Wiesner
Ivan Wigdorovits
Peter J. Wild
Lukas Wildisen
Jörg Wilhelm
Prof. Dr. Willy Wilk
Luzius Willi
Reto E. Willi
Marc A. Winiger
Maximilian Winkler
Heinz Wirz
Dr. Werner Witz
Dr. Emil Witzig
Marco Witzig
Roger Wohlwend
Thierry S. Wolter
Werner Woodtli
Dr. Dieter und Isabelle Wüest
Charles Jules Vernon Wülser
Prof. Dr. Heidi und
Dr. Werner Wunderli-Allenspach
Dr. Willy Wunderlin
Urs Wüst
Dr. Jörg Wyder
Dr. Philippe Wyrsch
Dr. Alfred Wyss
Kaspar F. Wyss
Niklaus Jakob Wyss
Christine Wyttenbach
Qin Yin
Ervin Zafer
Marcelo Serrano Zanetti
Gottlieb Zehnder
Daniel Zeidler
Alfred Zeier
Daniel Marc André Zen Ruffinen
Patrick Oliver Zenklusen
Jürg W. Ziegler
Dr. Athanasios Zikopoulos
Dr. Bruno Zimmerli
Dr. Fritz Zimmermann
Martin Zimmermann
Dr. Markus Chr. Zobrist
Rolf Zobrist
Dr. Kurt Zollinger
Max Zollinger
Paul Zosso
Ali Zschokke
Bruno Zuber
Dr. Urs Zuber
Dr. Vivian J. Urbain Zufferey
Dr. Heinz Zumstein
Walter Zumstein
Dr. Fabio Zürcher
Dr. Stefan Zürcher
Edwin Zurkirch
Walter Zweifel
Margrit Verena Zwimpher Salkeld

**MAKING A DIFFERENCE:
EXAMPLES OF THE VARIETY OF BENEFACTORS
AND PARTNERS THAT CONTRIBUTED IN 2012.**

Arthur Waser Stiftung
Partner of the Sustainable Building Initiative,
Projects in Africa

Bühler Group
Partner of the World Food System Initiative
and of the Excellence Scholarships Programme

Coop
Partner of the World Food System Initiative

EKZ
Partner of the Energy Initiative

ETEL S.A.
Partner of the Materials & Processes Initiative

Francisco Fernandez, CEO Avaloq AG
Partner of the Strategic Fund
and of the Excellence Scholarships Programme
Dipl.-Ing. ETH Computer Engineering, 1989

Fred Kindle
Benefactor of the Excellence Scholarships Programme
Dipl. Masch.-Ing. ETH, 1984

Gerhard E. Schmid
Benefactor of the Strategic Fund
Dipl. El.-Ing. ETH, 1983

Heinrich Lanz
Benefactor of the Excellence Scholarships
Programme
Dipl. El.-Ing. ETH, 1974

Markus Rauh
Benefactor of the Pioneer-Fellowships Programme
Dr. sc. ETH Mechanical and Process Engineering, 1971

Misrock-Stiftung
Partner of the Med-Tec Initiative

Prof. Dr. Peter Fricker
Benefactor of focusTerra
Dr. sc. ETH Earth Sciences, 1959

Philips AG
Partner of the Med-Tec Initiative

Swiss Re Foundation
Partner of the Risk Initiative



Gasoline from Water, CO₂, and Sunlight
 In search of ways to efficiently produce clean and sustainable fuels for transportation, a research team around Aldo Steinfeld, Professor of Renewable Energy Carriers at ETH Zurich and Head of the Solar Technology Laboratory at the Paul Scherrer Institute, has recently developed a promising thermochemical process and associated solar reactor technology for producing liquid hydrocarbon fuels from H₂O, CO₂, and concentrated solar energy.



As the leading European university, ETH Zurich has set out to help shape the future on topics such as healthy aging, sustainable energy solutions, and integrative risk management. These goals are brought to life by students, scientists, and all of the benefactors and partners of the school.

The ETH Zurich Foundation brings together those that are united in their work to bend the boundaries of science. No matter if they are an individual, an organization, or a company, the common ground is the exploration of unknown territory for a greater good. Along with the tangible difference that can be made when you bring extraordinary minds together, this is what makes those partnerships irreplaceable.



ETH Sustainability Summer School

“IT IS WITH GREAT ENTHUSIASM THAT I SUPPORT YOUNG ETH ENGINEERS. TO ME, THIS IS THE BEST WAY TO GIVE BACK AND INVEST IN THE FUTURE OF SWITZERLAND.”

Randolf Hanslin
 Mechanical and Process Engineer, ETH
 Board of Directors, FRANKE

“Green, cheap, and on-hand” are our basic requirements for our energy sources. Interdisciplinary cooperative research is essential to exploring how alternative energy sources can meet these demands. Therefore, more than 70 ETH professors have joined forces to find and develop solutions to energy-related problems.

Beyond that, cooperative efforts between industries and technical as well as social partners are developed in the *Energy Science Centre (ESC)*,

where collaborators can overcome administrative hurdles in order to create and link knowledge. The dynamic earth storage system that is installed beneath the Hoenggerberg campus has been acclaimed and awarded by the International Sustainable Campus Network (ISCN). With this project ETH wants to run a CO₂-free campus no later than 2025.

Our health is important to us—so important that we regularly toast to it. Hence, research at ETH covers an extensive range of health-related subjects. This research is undertaken by a variety of scientists, from electrical engineers to chemists, and from cancer researchers to computer scientists. Here at ETH Zurich, at the intersection of engineering, natural science, and medicine, numerous scientists passionately search for solutions to ensure the best quality of life.

The deep roots of medical technology research at ETH Zurich can be illus-

trated with the example of a doctoral thesis in the late nineties that led to the development of parallel imaging, now known as magnetic resonance imaging (MRI). Today, this technology is integral for any non-invasive heart and vascular examination routine.

This vast spectrum of health-related research is both amazing and challenging: In order to effectively fight diseases like cancer, diabetes, or Alzheimer's, it is imperative to study their complex underlying molecular biological processes and parameters. For stroke patients on the other hand, training with intelligent rehabil-

itation robots is essential to recover their coordinative and motor skills.

The enrolment figures in the new ETH Department of Health Sciences and Technology (D-HEST) show the importance of healthy aging for the next generations. Instituted in January 2012, this department already has had close to 400 new students per semester.

"WE SUPPORT ETH IN THE RESEARCH OF GLOBAL DISEASES LIKE DIABETES, ALONG WITH THE PROMOTION OF THE BRIGHTEST TALENTS. THIS IS OUR CONTRIBUTION TO SHAPING THE FUTURE."

Dr. Otto Saxer
President, Starr International Foundation



Institute for Biomedical Engineering (IBT), ETH Zurich

Today, natural, technological, economic, social, and geopolitical hazards of all types assume global dimensions much more rapidly than they did previously. Our society is increasingly uneasy and the demand for answers and sustainable solutions from politics, industry, and science is bigger than ever.

One of the pillars ETH Zurich established for risk evaluation and management is the ETH Risk Centre. It aims to build an integrated view of risk landscapes and develop the means to understand, assess, compare, and manage them. Here, interdisciplinary risk analysis means teamwork among academia, industry, and government. According to Hans-Rudolf Heinemann, chair of the steering committee, "the aim is to educate specialists that are capable of enhancing system robustness and resilience, as well as of developing novel approaches for specific geographical regions." A cluster of no less than twelve ETH specialists from contrasting research areas pool their knowledge and experience to develop innovative solutions to better manage future risks. The Risk Centre fosters both top-down initiatives and bottom-up collaborative research projects as an interface between academia and industry.

The second pillar is the Zurich Information Security and Privacy Centre (ZISC), which brings together science and industry to carry out research and education for a more predictable, robust, and pervasive future of information security. "In information security, the collaboration between industry and academia is crucial and enables us to address the most relevant attacks and to design the most effective countermeasures. Zurich Information Security and Privacy Centre brings together ETH Zurich security faculty,

industry, and government institutions and creates the necessary collaborative environment" states Srdjan Capkun, Director of ZISC. Within 5 years, the ZISC has developed into a leading centre in Europe: ZISC researchers are active in presenting their results at all major security conferences. ZISC workshops pull together the best of fundamental research, education, and industry. Through these activities, Zurich is now on the map as one of the world's top addresses for R&D in information security.



"THE SECURITY OF DATA IS OF CRUCIAL IMPORTANCE IF WE ARE TO REAP THE BENEFITS OF TOMORROW'S INFORMATION SOCIETY. THIS IS PARTICULARLY THE CASE IN THE FINANCIAL SERVICES INDUSTRY, WHICH IS WHY CREDIT SUISSE SUPPORTS THE WORK OF ETH ZURICH AND THE ZURICH INFORMATION SECURITY AND PRIVACY CENTRE."

Tobias Guldemann
Chief Risk Officer
Member of the Executive Board of Credit Suisse Group AG and Credit Suisse AG



“As one of the leading research institutes and talent incubators, ETH Zurich is attracting the brightest, high-performance talents from around the world. And that’s exactly what sets ETH apart from other universities. For this reason, as well as to secure the next generation of globally competitive engineers, our company wholeheartedly endorses ETH Zurich’s Excellence Scholarship Programme.”

**Paul J. Hälg, Dr. sc. ETH,
CEO, Dätwyler Holding Inc.**

“I have everything I could ever need: a happy and healthy family, three children, and a solid economic foundation, which I owe to my education at ETH Zurich. At my age, one doesn’t need anything but a loving and caring environment along with the right attitude towards life. The time has therefore come to give back to those who are our future.”

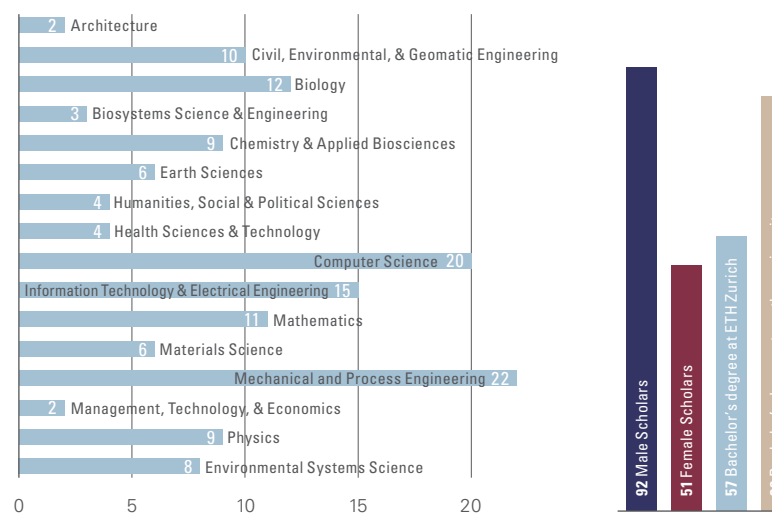
**Kurt Nohl
Dipl.-Ing. ETH Mechanical and
Process Engineering, 1955**

Workshop for high school graduates by the Department of Information Technology and Electrical Engineering, ETH Zurich

To study at ETH Zurich means early access to both research and practical experiences. It also means training in critical and creative scientific thinking beyond theoretical knowledge. In order to continuously meet and excel beyond these high standards, the rector of ETH Zurich, Prof. Dr. Lino

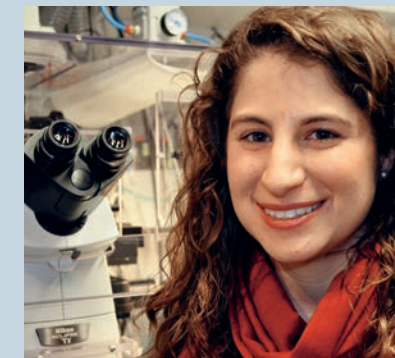
Guzzella, is dedicated to strengthening the promotion of talent. Enablers of this aspiration are our alumni, donors, foundations, and companies that believe in investing in talent. It is for them that we want to bridge the gap to the world of ETH Zurich.

So far, 143 Master Students in 16 Departments have been awarded an Excellence Scholarship



“THE ABILITY TO SOLELY FOCUS ON MY MASTER’S STUDIES WOULDN’T BE POSSIBLE WITHOUT THE EXCELLENCE SCHOLARSHIP. IT ALLOWS ME TO OPTIMIZE MY RESEARCH TECHNIQUES AND ULTIMATELY DEVELOP AN IMPACTFUL THESIS PROJECT.”

Alicia Kaestli, Excellence Scholar 2012
Bachelor’s degree in Biological Engineering at MIT
Currently enrolled in the master’s programme in biotechnology at ETH Zurich, and completing her master’s thesis in microfluidics
Enthusiastic marathon runner



“THANKS TO THE EXCELLENCE SCHOLARSHIP AND THE SUPPORT OF PROFESSOR LEROUX, I HAVE BEEN ABLE TO COMPLETE AN INTRIGUING RESEARCH PROJECT THAT PROVED TO BE OF THE UTMOST THERAPEUTIC RELEVANCE.”

Simon Matoori, Excellence Scholar 2011
Bachelor’s degree in Pharmaceutical Sciences at ETH Zurich
Masters’s degree in Pharmaceutical Sciences, and winner of best master’s thesis award in Pharmaceutical Sciences at ETH Zurich and University of Basel.
Plays contemporary jazz and produces his own radio show at ETH

"From Knowledge to Action" is a vital element of education and research at ETH Zurich. It provides the most gifted talents with an environmental setting that empowers visionary thinking, innovation, and translation. Accelerating innovation and science-to-market developments without bureaucratic boundaries is part of the strategic vision of the school. For this purpose, ETH Zurich needs bright minds, state-of-the-art infrastructure, and inspiring relationships with industry partners. By encouraging entrepreneurship, ETH Zurich contributes its share to a prosperous Switzerland.

Freedom to pursue your dreams

For many talented young scientists, translating their research into their own firm is an attractive ambition. Fostering this trailblazing spirit ETH Zurich introduced the *Pioneer Fellowships* in 2010 to encourage young scientists who have achieved their master's degree or PhD to develop a highly innovative product or service based on their own research results. Every eligible individual or team receives a non-refundable grant for a period of 18 months. Four spin-offs

have already resulted from the program, three of which were founded last year.

Incubation of future entrepreneurs

Pioneers not only need the freedom to pursue their dreams, but also the infrastructure and inspiration to do so. In 2012 ETH decided to actively bridge the gap between science and industry by inaugurating two *Innovation and Entrepreneurship Laboratories (ieLab)*. This lab concept is not only about providing spaces that support innovation, exploration, and translation, but also about inspiring use-oriented basic research that is of value to society. For that to happen, the ieLabs provide coaching and alliance building with industrial associates and scientific leaders.

"TO EMPOWER TALENTED YOUNG RESEARCHERS WITH ENTREPRENEURIAL SPIRIT AND THE ASPIRATION TO CREATE SOCIOECONOMIC VALUE, THAT IS THE GOAL OF THE PIONEER FELLOWSHIPS. AN INSPIRING ECOSYSTEM IS PROVIDED BY THE NEW ieLABS, WHERE OUR YOUNG ENTREPRENEURS ARE ENCOURAGED AND SUPPORTED BY MARKET EXPERTS AND SERIAL ENTREPRENEURS TO REALIZE THEIR VISIONS."

Roland Siegwart

Vice President of Research and Corporate Relations, ETH Zurich

GLYCEMICON

"The Pioneer Fellowship grant was crucial in enabling us to turn our scientific project into the spin-off, Glycemicon." *Susanne Wolfrum, Pioneer Fellow 2011*

The Glycemicon team, which includes two Pioneer Fellows, has identified a special bile acid that could bring an end to the type 2 diabetes epidemic. Overweight patients with large fat cells have an especially high risk of developing type 2 diabetes. The substance developed by Glycemicon has the potential to convert big, insulin-resistant fat cells into small fat cells. The naturally occurring product is not meant to be introduced to the market as a new drug, but instead as a medical food, a form of health care nutrition that has to be prescribed and monitored by a physician.

Chronology of a Success Story

2011 Susanne Wolfrum and Riccardo Cribiu were awarded a Pioneer Fellowship each by ETH Zurich for their research on novel treatments for obesity linked to type 2 diabetes

2012 Approval of EU grants

2012 Winner of the ETH Spark Award for the most promising invention at ETH Zurich

2012 Winner of the KPMG Inspiration Grant

2013 Incorporation as ETH spin-off

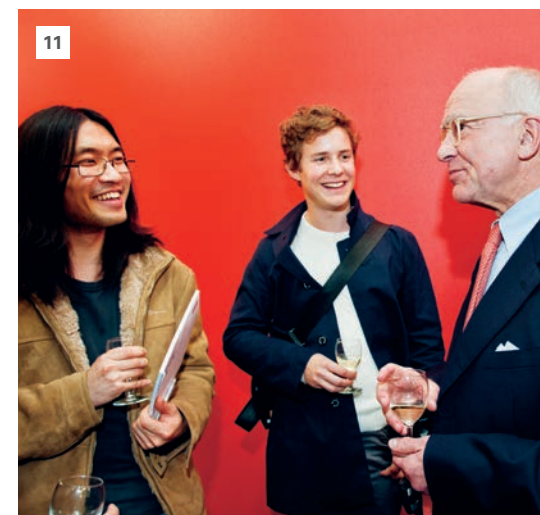
2013 Winner of national startup competition Venture Kick, stage III

"I WANT TO GIVE SOMETHING BACK TO ETH ZURICH BY INVESTING IN ITS FUTURE. THE PIONEER FELLOWSHIP PROGRAMME IS IDEALLY SUITED TO THIS GOAL, AND IT IS EXCITING TO ENCOURAGE TALENTED YOUNG SCIENTISTS AND ENGINEERS WHO WILL CREATE VALUE THROUGH ENTREPRENEURIAL POSSIBILITIES."

MARKUS RAUH
DR. SC. ETH 1971

We are much obliged to have you as our esteemed benefactors and partners. As part of our appreciation, we have created various opportunities for dialogues throughout the year.

At these events, you have direct access to the talent, science, and innovation that are significantly supported by your contributions. We want you to personally experience the impact of your endorsements, and we want to express our gratitude for your trust in our work.



- 01–04** Reaching for the Stars – Thanks Giving Dinner
02 Prof. Dr. Claude Nicollier, astronaut, pilot, and Professor for Aerospace Engineering, ETH Lausanne and Zürich
03 Dr. Max Rössler, founder of the Max Rössler Award, congratulates Dr. Nicola Spaldin, the winner of the 2012 prize.

05–06 Alumni visits

- 07–08** The President of ETH Zurich invites to learn about strategic research and its possible impacts on society and industry.

- 09–11** Excellence Scholarship field trips to local companies that support the programme.

- 12–15** Meet the Talent 2012 was the last event held under the leadership of former dean Prof. Dr. Heidi Wunderli-Allensbach, who launched the Excellence Scholarships Program.

- 16–18** Companies and scientists in dialogue at the Partnership Council



	2012 in CHF	2011 in CHF
INCOME		
Financial Contributions	32'509'138	63'775'694
Financial Contributions, Not Earmarked	2'218'742	3'951'800
Financial Contributions, Earmarked	30'290'396	59'823'894
Other Income	8'847'719	788'132
Financial Result	8'821'113	781'026
Other Income	26'606	7'106
TOTAL INCOME	41'356'857	64'563'826
EXPENSES		
Allocations from Strategic Fund	2'572'314	850'000
Research Projects	882'314	850'000
Talents / Scholarships	1'000'000	0
Infrastructure / Equipment	690'000	0
Allocations from Earmarked Funds	55'551'686	26'885'333
Research Projects	3'341'686	1'341'000
Professorships	50'500'000	23'033'333
Talents / Scholarships	1'400'000	1'880'000
Infrastructure / Equipment	310'000	650'000
Allocation Deductions	0	-19'000
Total Allocations	58'124'000	27'735'333
Operating Expenses (incl. Depreciation)	1'560'790	1'384'616
Changes in Funds	-23'750'589	33'025'036
Annual Result	5'422'656	2'418'841
TOTAL EXPENSES	41'356'857	64'563'826
Ratio of Operating Expenses vs. Financial Contributions	4.8 %	2.2 %

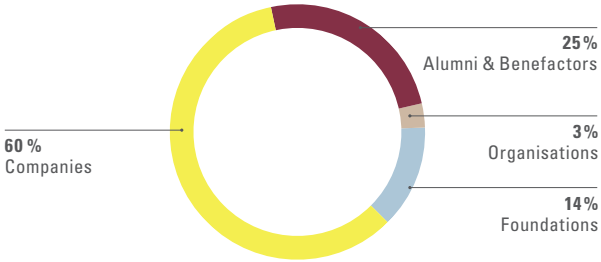
In our capacity as auditors of the ETH Zurich Foundation, we confirm that the figures reported in the 2012 annual report, appearing on pages 20 and 21, may be derived from the 2012 annual accounts, which we have audited and unconditionally attested on 13 March 2013.

KPMG AG

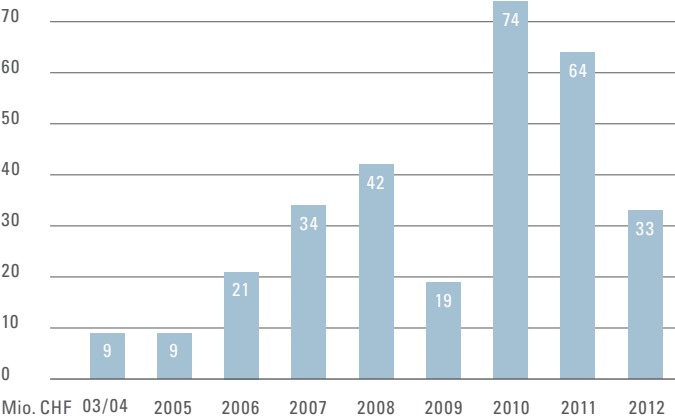
Raphael Arnet

Michael Herzog

Source of Funds 2003–2012



Donations to the ETH Zurich Foundation 2003–2012



	2012 in CHF	2011 in CHF
ASSETS		
Current Assets	173'257'049	156'291'511
Cash and Cash Equivalents	22'810'745	6'344'189
Securities (Call and Fixed Deposits)	111'276'693	105'677'830
Receivables from Donors	38'221'000	43'590'000
Other Receivables / Deferred Expenses	948'611	679'492
Non-current Assets	91'929'191	88'512'442
Receivables from Donors	91'255'638	88'476'500
Other Non-Current Assets	673'553	35'942
TOTAL ASSETS	265'186'240	244'803'953
LIABILITIES		
Current Liabilities	28'127'084	13'404'030
Current Liabilities / Deferred Income	902'084	154'697
Current Liabilities from Allocations	12'225'000	8'249'333
Loan Obligations	15'000'000	5'000'000
Non-current Liabilities	86'725'000	62'737'833
Loans	10'000'000	25'000'000
Non-Current Liabilities from Allocations	76'725'000	37'620'000
Long-term Provisions	0	117'833
Total Liabilities	114'852'084	76'141'863
Fund Capital (Earmarked Fund)	116'935'675	140'686'265
Organisation Capital	33'398'481	27'975'825
Paid-Up Capital	50'000	50'000
Strategic Fund	27'925'825	25'506'984
Annual Result	5'422'656	2'418'841
TOTAL LIABILITIES	265'186'240	244'803'953

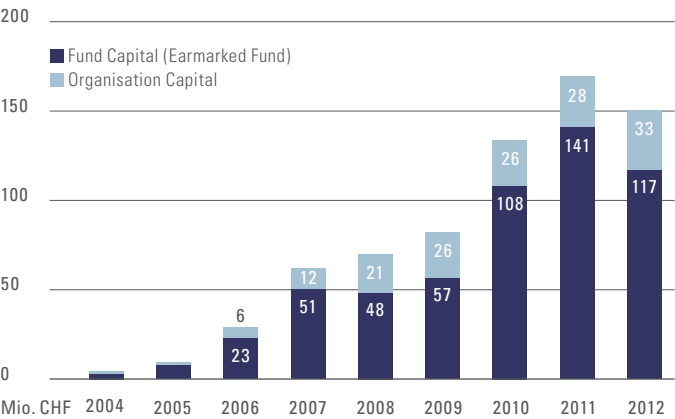
Annual Accounts

The annual accounts were drawn up in compliance with the Swiss GAAP FER accounting standards.

Risk Management

The Foundation has adapted its internal controlling system (ICS) to the current legal requirements. Decisions concerning the amount of funds awarded to projects are supported by a simulation of the potential financial outcome for the Foundation. Both measures ensure that the Foundation remains financially robust.

Capital



ALL RESOURCES
SOLICITED BY THE ETH
ZURICH FOUNDATION
DIRECTLY BENEFIT ETH
ZURICH.

President



Jürgen Dormann
Chairman of the Board of Directors, Metall Zug AG and Sulzer AG; President of the Board of Trustees of ETH Zurich Foundation since 2008



Francisco Fernandez
Founder and CEO Avaloq Evolution AG; Member of the Board since 2009 and member of Allocation Committee



Dr. Alice Huxley
Biotech-Entrepreneur and Founder and CEO of Aliophtha AG; Member of the Board since 2009



Dr. Thomas Knecht
Chairman of Board of Directors Knecht Holding AG; Member of the Board since 2005 and member of Steering Committee



Dr. Jörg Müller-Ganz
Chairman of the Board of Directors of the Zürcher Kantonalbank; Member of the Board since 2011 and member of Investment Committee

Vice-President



Prof. Dr. Ralph Eichler
President ETH Zurich; Vice President of the Board of Trustees of ETH Zurich Foundation since 2007



Walter Gränicher
Entrepreneur and designated President of ETH Alumni Association; Member of the Board since 2012



Prof. Dr. Thomas Jordan
Chairman of the Governing Board of the Swiss National Bank; Member of the Board since 2013



Dr. Brice Koch
Executive Committee member ABB Ltd., responsible for Power Systems division; Member of the Board since 2012



Prof. Dr. Roland Siegwart
Vice President of Research and Corporate Relations ETH Zurich; Member of the Board since 2011 and member of Allocation Committee



Dr. Walter Grüeblér
Former Chairman of the Board of Directors of Sika AG; Member of the Board since 2008 and Head of Allocation Committee



Dr. Irene Kaufmann
Vice-Chairwoman of the Board of Directors of Coop; Member of the Board since 2009 and Head of Investment Committee



Dr. Hariolf Kottmann
CEO and Executive Member of the Board of Directors, Clariant AG; Member of the Board since 2012



Dr. Kathrin Amacker
Head of Corporate Communications, Swisscom AG; Member of the Board until March 2013 and member of Allocation Committee



The Team of the ETH Zurich Foundation (from left to right):

Dr. Donald Tillman
Managing Director

Corinna Adler
Director for Strategic Partnerships

Franziska Juch
Head of Alumni Fundraising and Communications

Lioudmila Thalmann
Head of Finance and Operations

Kerry de Silva
Administrative Assistant

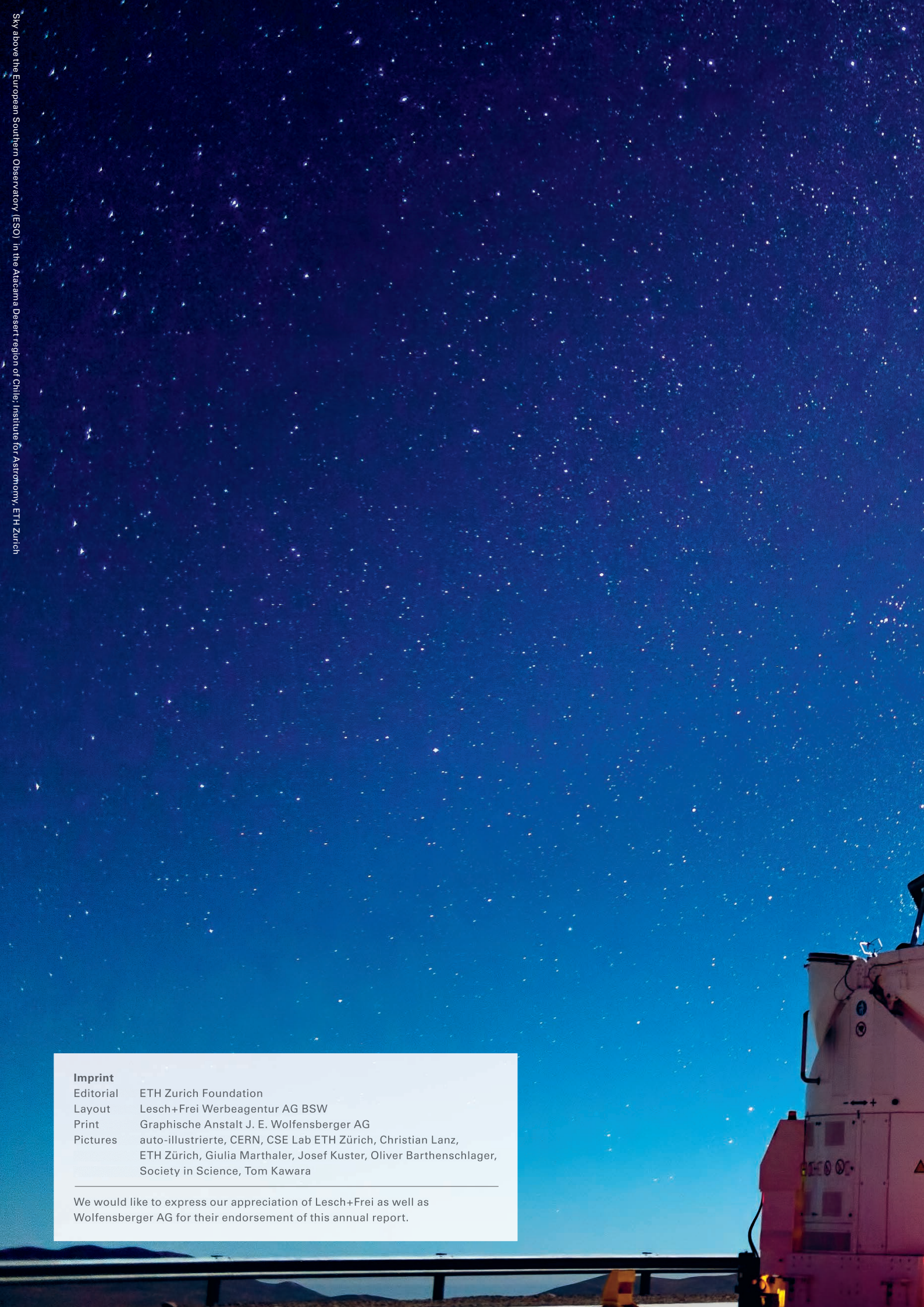
Dr. Urs Zuber
Head of Industrial Relations for ETH Zurich

Nathalie Fontana
Director for Strategic Partnerships

Accelerate research, strengthen knowledge, and generate added value!
We will gladly assist you in finding the best initiative for you. Please don't hesitate to contact us directly.

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Sky above the European Southern Observatory (ESO) in the Atacama Desert region of Chile. Institute for Astronomy, ETH Zurich

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