

Creating a sustainable future through research

In keeping with the key concerns of its benefactor, Heinz Trox, the Heinz Trox Foundation puts one matter at the heart of everything it does – human well-being.

The assets of the Heinz Trox Foundation consist primarily of its stake in TROX GmbH. When the company was founded in the post-war period, no one was talking about environmental protection or sustainability. At that time, the focus was very much on achieving economic growth as quickly as possible instead.

In the 1980s and 1990s, however, various scientific studies (e.g. the Club of Rome) led people to look at the world in a completely new, eco-friendly way. People around the world realised that, if business and

industry were to simply carry on as before, it would do lasting damage to the environment.

In 2015, following intensive engagement with the issues at hand, the international community came to a unique decision. The UN General Assembly unanimously decided that the world would have to commit fully to the principle of “sustainable development”, i.e. ensuring that actions taken in the present do not harm future generations. This resulted in the subsequent adoption of 17 *Sustainable Development Goals (SDGs)*. ▶



Graphic: BMU

Agenda 2030: 17 global goals for sustainable development.

Working for the common good



Dear Readers,

Sometimes it can seem like we are being bombarded with bad news from all sides. This can disguise the fact that there are actually very positive things happening in many areas of our lives – thanks in no small part to the scientific world. And in many cases, the underlying research was only made possible through endowments from foundations such as the Heinz Trox Foundation.

Scientific research also plays a vital role when it comes to global prosperity. That's why the advancement of scientific developments was always one of our benefactor's primary concerns – something which is clearly expressed in the Heinz Trox Foundation's statutes.

By supporting the scientific community, the Foundation is helping to bring about improvements in public welfare – and will continue to do so in the future.

As Chairman of the Foundation Council – a role to which I was appointed by Heinz Trox – I am extremely grateful to be able to play a part in this work.

This newsletter – our second bulletin – focuses on what the Heinz Trox Foundation is currently doing to support developments in science. I hope you enjoy reading this issue.

Yours sincerely,
Hans Fleisch

Three technical university dissertations win the Heinz Trox advancement award

The Heinz Trox Foundation has been supporting German universities of applied sciences with a particular interest in ventilation and air-conditioning technology since 2018. The Foundation has earmarked EUR 500,000 – to be spread over 5 years – for this purpose.

In addition, the Foundation will be selecting three outstanding dissertations each year and presenting each author with a prize of EUR 3,333.

Erik Alves from Westphalian University of Applied Sciences Gelsenkirchen

Bocholt Recklinghausen won the award for his dissertation on “Orthogonal rotary heat exchangers in ventilation and air conditioning systems”. Lucas Schiffhauer from Esslingen University of Applied Sciences was recognised for his work on “Air handling units and geothermal energy”, while Paul Freund from Beuth University of Applied Sciences Berlin was honoured for his theoretical examination of different frost protection strategies in the field of ventilation.

“All three dissertations are directly linked to practical applications and demonstrate very interesting research approaches with significance for the entire industry,” says Univ.-Prof. Dr.-Ing. Dirk Müller from RWTH Aachen University, who is the director of the E.ON Energy Research Center and a member of the jury that selected the winners.



Photos: TROX

Prof. Hans Fleisch, Chairman of the Heinz Trox Foundation Council (second from right), and Paul Schwarz, Chairman of the Board of Directors (second from left), presented the 2018 winners with their awards at a ceremony held at ISH 2019 in Frankfurt am Main.

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► The official title of the UN action plan is: **Transforming our world: the 2030 Agenda for Sustainable Development.**

The majority of German companies, including TROX GmbH, are also committed to these 17 goals. Sustainability concerns will therefore be an increasingly important priority in



Photo: UNSDG

the future for these companies in particular.

Sustainability forms part of the essence of any foundation these days. It is all the more central to the Heinz Trox Foundation because, through its work in the field of ventilation and air-conditioning technology, the Foundation

is contributing to scientific developments which may help to achieve some of the SDGs. This includes the following goals:

- More sustainable economic development (SDG 8),
 - Technical innovation (SDG 9),
 - Energy efficiency (SDG 12)
- And – central to the SDG and the concerns of the benefactor –
- Human well-being (SDG 3).



Handing over the symbolic key (from left): Prof. Dirk Müller, RWTH Aachen University, Institute for Energy Efficient Buildings and Indoor Climate; Prof. Christoph van Treeck, RWTH Aachen University, Institute of Energy Efficiency and Sustainable Building; Thomas Kammel, KAMMEL Architekten und Ingenieure; Geva Aschhoff, RWTH Aachen University, joint head of the Facility Management department.

Heinz Trox Foundation supports construction of a new laboratory hall at RWTH Aachen

November 2018 saw the official opening of the new test hall for energy-efficient construction on the RWTH Aachen University campus. Both the Institute for Energy Efficient Buildings and Indoor Climate and the Institute of Energy Efficiency and Sustainable Building will be using the new hall to carry out tests.

The hall was partly funded by the Heinz Trox Foundation because the new laboratories will also be used to carry out research into pleasant and healthy indoor climates in conjunction with the non-profit company Heinz Trox Wissenschafts gGmbH. “The entire ventilation industry will benefit from this work,” says Prof. Hans Fleisch.

The symbolic handover of a giant key to the “building owners” of the hall – Prof. Müller and Prof. van Treeck – was followed by a symposium on thermal comfort, which was supported by Heinz Trox Wissenschafts gGmbH and attended by around 200 international guests from the fields of research and industry.

Leading experts including Prof. Tanabe from Japan and Prof. Clausen from Denmark spoke about their research

at the event, which brought together the academic elite in this field.

The slides from the presentations and further information about the speakers' current projects can be found at www.htx-wissenschaft.de.



The symbolic handover of a giant key was followed by a symposium on thermal comfort, which was held in the new hall on the same day and was supported by Heinz Trox Wissenschafts gGmbH.

2018 donation overview

Charitable donations (2018 recipients)

Neukirchen-Vluyn site

ADFC Kreis Wesel (branch of German cyclists' association)
Antoniussschule school friends' association
Collegium vocale
Gerhard-Tersteegen-Schule school friends' association
Neukirchen-Vluyn football club
Kinderheimat children's home
kath. Kita St. Antonius nursery friends' association
KJG St. Quirinus (Catholic youth organisation)
KJG Vluyn (Catholic youth organisation)
Museumsverein Neukirchen-Vluyn (museum association)
Musikschule Neukirchen-Vluyn (music school)
Neukirchener Erziehungsverein (charitable association)
Pestalozzischule school friends' association
Public library (BNE) ("Bildung für nachhaltige Entwicklung" = Education for Sustainable Development (ESD)), friends' association
SV Neukirchen 21 sports association, swimming division
Financial support was also given to two families living in Vluyn

Anholt site

AWO Isselburg, elderly care
BSVW Bocholt/Borken (association for blind and visually impaired people)

Bürgerhaus Vehlingen (community centre)
DRK Borken, "GrenzenLos" (German Red Cross project)
DRK Kitas an Aa und Issel (German Red Cross nurseries)
Isselschule school friends' association
Heimatverein Anholt (heritage association)
Kath. Grundschule Anholt "Frühstart" (breakfast club at Anholt Catholic primary school)
Kath. Kirchengemeinde St. Franziskus (Catholic church community)
Kath. Tageseinrichtung für Kinder St. Bartholomäus (Catholic nursery)
Männergesangverein "Eintracht" Anholt 1918 (male choral society)
SuS Isselburg 1919 (sports club)
TTV Rees-Groin 1949 e.V. (table tennis club)

Goch site

DRK Ortsverein Goch (branch of the German Red Cross)
Elterninitiative Pustebume (parents' initiative)
Inklusive Kita Bullerbü (inclusive nursery)
Niers-Kendel-Schule school friends' association
Goch municipal administration ASTRA youth centre

Bad Hersfeld site

Bad Hersfelder Festspiele (theatre festival)
Herford choir and band friends' association
Fröbelschule school friends' association

Hörgeschädigten-Bund (association for hearing impaired people)
Jugendhandball-Förderverein (youth handball)
Neuenstein ski club
SMOG (campaign against violence in schools)
Sportkid e.V. (sports association for children)
"Zeitung in der Schule" (media project for schools)

Academic donations (2018 recipients)

Beuth University of Applied Sciences Berlin, Prof. Finke
Heidelberg Laureate Forum Foundation (scholarships)
Esslingen University of Applied Sciences, Prof. Albers
Leipzig University of Applied Sciences, Prof. Hartmann
Karlsruhe University of Applied Sciences, Prof. Kauffeld
Munich University of Applied Sciences, Prof. Renner
HTx Wissenschafts gGmbH
Ostfalia University of Applied Sciences, Wolfenbüttel, Prof. Schnieder
TH Köln – University of Applied Sciences (Cologne), Prof. Henne
Mittelhessen University of Applied Sciences, Gießen, Prof. Winkler
University of Duisburg-Essen (scholarship programme)
Westphalian University of Applied Sciences Gelsenkirchen, Prof. Fieberg

The Library of Things

The Heinz Trox Foundation supports Neukirchen-Vluyn's "Education for Sustainable Development" (ESD) initiative, which is aiming to combat "throw-away" consumption and demonstrate solutions for a more sustainable way of living.

One relatively new solution is the "Library of Things". The "library" gives people the option of borrowing

items that are particularly unusual or rarely needed and encourages a policy of **sharing rather than ownership**.

More information is available at: <https://stabuenv.wordpress.com/category/buecherei-der-dinge/>

Stephan Baur, climate protection manager for Neukirchen-Vluyn, is hoping to combat the "throw-away mentality" with the Library of Things.



Photo: BNE

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