



**“Developing Future Water & Peace Leaders”  
Rotary’s Strategic Partnership with IHE Delft**

**Ir. Henk Jaap Kloosterman**

**UNESCO-IHE** INSTITUTE FOR WATER EDUCATION

**Presented at  
Rotary NL Water Seminar  
Delft, 20 April 2017**

# About the presenter

- Ir. Henk Jaap Kloosterman
  - 28+ years experience as Petroleum Engineer with Shell
  - Rotarian since 1999
    - Rotary Club Freshwater Bay (Australia)
    - Rotary Club Aberdeen-Deeside (UK)
    - Rotary Club Muscat u.f. (Sultanate of Oman)
    - Rotary Club Voorburg-Vliet (NL)
  - Rotary Host Area Coordinator (HAC) IHE Delft scholarship program



## “Developing Future Water & Peace Leaders” Rotary’s Strategic Partnership with IHE Delft

- **Strategic synergies between IHE Delft and Rotary**
- Main IHE Delft activities and opportunities for Rotary
- Current status joint activities
- Future possibilities for cooperation

# 3 out of 4 Jobs Water-dependent



Agriculture



Forestry



Fishery



Energy



Industries



Recycling



Building



Transport

# Strategic synergies IHE Delft and Rotary

- Water will be one of the most important issues in 21st century
- Water is cross cutting issue: relates to poverty, climate change, public health and peace  
→ knowledge to improve water management practices
- Rotary & IHE Delft together can make a significant and sustainable difference with targeted “Water and Sanitation” and “Water and Peace” scholarship programs



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# IHE Delft Institute for Water Education

- Post-graduate Institute on Water Education. World's largest!
- Since 1957
- 15,000+ Scientists, Engineers and Decision Makers trained
- 160 Countries
- 87% of Graduates remain in the Water Sector

A photograph of the UNESCO-IHE Institute for Water Education building in Delft, The Netherlands. The building is a modern, multi-story structure with a light-colored, textured facade and large windows. The text "UNESCO-IHE INSTITUTE FOR WATER EDUCATION" is prominently displayed on the lower part of the building. In the foreground, there are several tall flagpoles with flags flying against a clear blue sky. The building is situated next to a traditional European-style building with a dark facade and white window frames.

UNESCO-IHE INSTITUTE FOR WATER EDUCATION

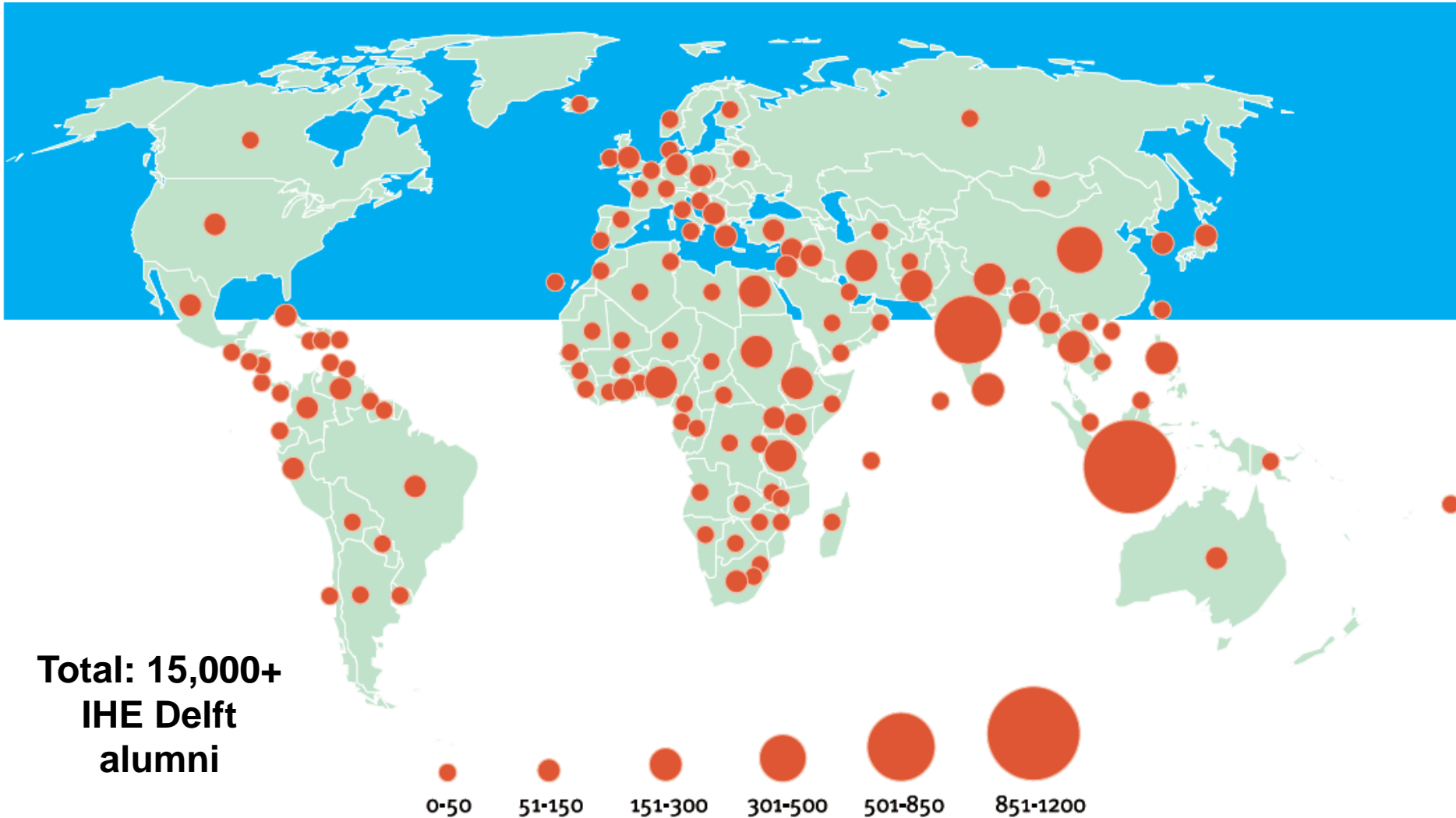
- Delft, the Netherlands
- MSc in Environmental Science
- MSc in Urban Water and Sanitation
- MSc in Water Management
- MSc in Water Science and Engineering
- Practical and theoretical

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UNESCO-IHE INSTITUTE FOR WATER EDUCATION



# IHE Delft – Alumni Community

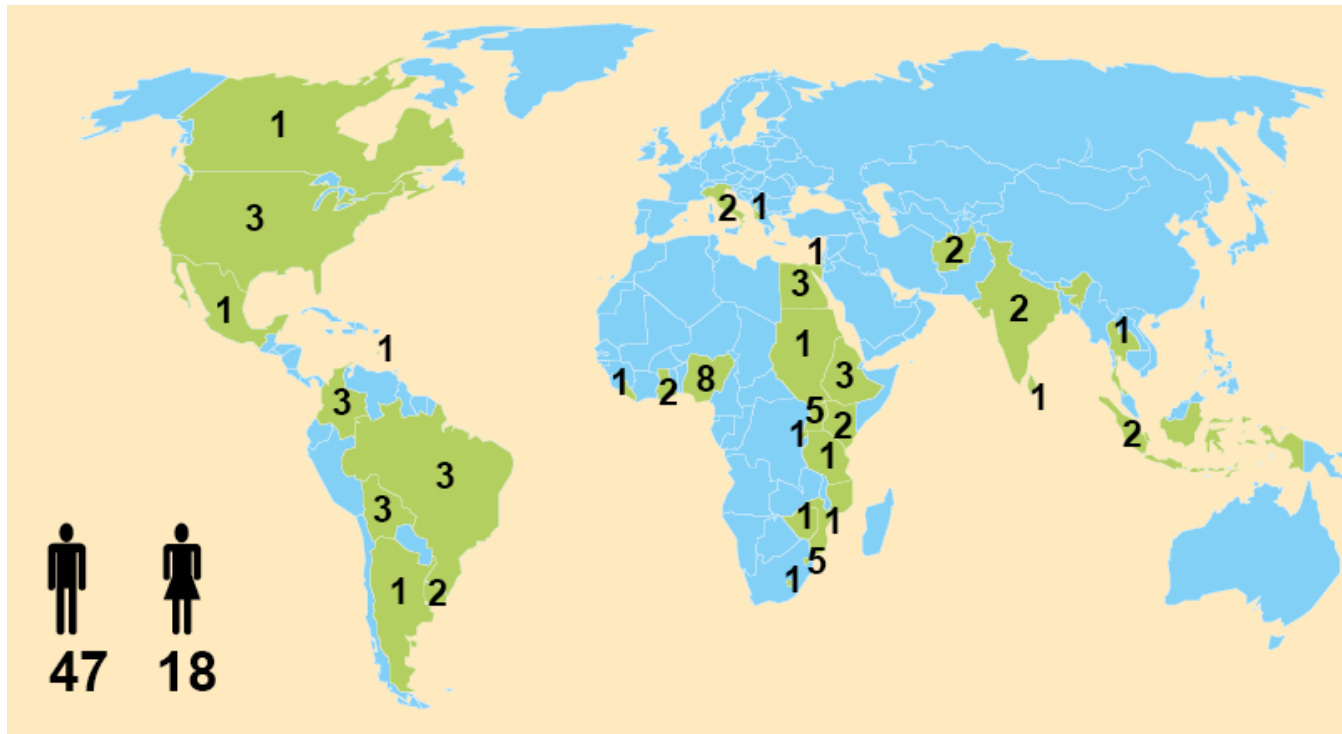


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- **Current status joint activities**
  - **Rotary Water & Sanitation MSc scholarship program**
  - **Rotary Water & Peace MSc program**
  - **Central Asia Water Seminar**
  - **Follow-up WASH projects**
- Future possibilities for cooperation

# Rotary Scholarship Program

- The Rotary Foundation has provided scholarships for 18-month MSc study in Water Management and Sanitation at IHE Delft
- 65 IHE Delft students from 31 countries have been sponsored since 2012
- Total Investment of over 2.1 MM\$



## 12 Specialisations

12	Urban Water and Sanitation
7	Sanitary Engineering
5	Water Supply Engineering
26	Water Science & Engineering
4	Coastal Engineering
10	Hydraulic Engineering
7	Hydroinformatics
3	Hydrology
2	Water and Food Security
27	Water Management
4	Water Conflict Management
1	Water Cooperation and Peace
2	Water Quality Management
10	Water Resources Management
10	Water Services Management

# Scholarship Program - Key Success Factors

- Effective 3-step Selection Process
  - IHE Delft screens on academic qualities
  - Candidates nominated by ‘their’ Rotary Club and District
  - Joint IHE Delft & Rotary panel-based selection,
- Strong Rotary-support during scholarship
  - Individual Dutch Rotarians assigned as host-counselors
  - Social Events organized by Dutch Rotary organization
  - Connection made with broader Rotary organization



# Getting Results – Graduation of Rotary-students

- Three batches of Rotary-sponsored students have graduated to date
  - 36 MSc diplomas awarded to date (5 with honor)
- 80% of graduated students returned home
  - Working in water sector
  - Involved in local Rotary organization



## Water & Peace MSc program

- Joint Program of 3 universities
  - University of Peace (Costa Rica)
  - IHE Delft (The Netherlands)
  - Oregon State University (USA)
- Objective is to provide critical analysis skills of water security within the broader context of peace and stability.
- First Rotary sponsored student (Christina Welch) is expected to graduate in Q2 2017

### A bridge over peaceful waters

Posted on **April 12, 2016**

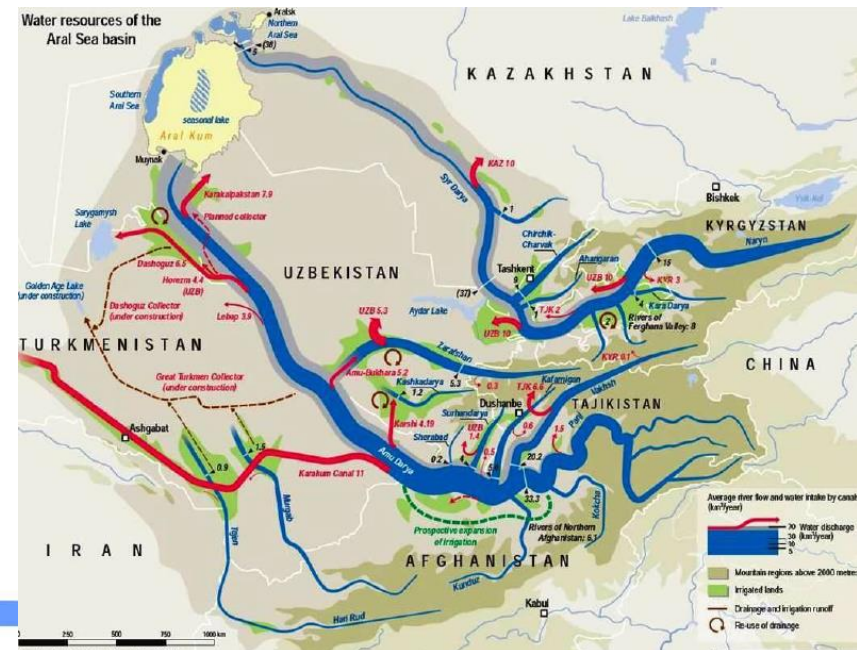
**Read the full story [here](#)**

*By Christina Welch, Rotary Scholar to UNESCO-IHE Institute for Water Education*



## Central Asia Water Seminar (CAWS)

- 2014 & 2016 Rotary-sponsored workshops on “preventive diplomacy for transboundary aquifers”
- Focus on Central Asia
  - Participants are water-leaders from Turkmenistan, Uzbekistan, Kazakhstan, Afghanistan, Tajikistan, Iran & Kyrgyzstan
- Workshop objectives to facilitate the building of “water-bridges” in the region fully achieved
- Forward plan is to pursue Rotary-sponsored MSc-programs in “Water & Peace” for selected candidates from Central Asia.



## 2017 Eco-sanitation project in West-Bolivia:

- Three Rotary-sponsored IHE Delft alumni have initiated a significant eco-sanitation project for 175 families in 5 communities in west-Bolivia
  - **Afnan Agramont** (MSc in Water Resources Management) working as CEO at Engineers Without Borders Bolivia
  - **Mariel Ugalde** (MSc in Water Services Management) working as water consultant at the World Bank Group, Bolivia.
  - **Scott Taggart** (MSc in Sanitary Engineering) working as Commercial Engineering Systems Leader - GE Water Technologies, Ontario, Canada.



**Afnan**



**Mariel**



**Scott**



# Rotary Follow-up WASH project

## 2017 Eco-sanitation project in West-Bolivia:

- Main objective is to provide eco-sanitation services to 5 communities part of the Municipality of Comanche (~200 families):
  - Capacity development through **educational workshops**
  - The construction of **175 eco-latrines facilities**, including a solar shower device
  - The formation of **community based committees** for sustainability

Item	Cost	Quantity	Total US\$
Education and training materials for 5 communities	\$1,500	3	\$4,500
Workshops for 5 communities	\$300	10	\$3,000
Latrine materials	\$600	62	\$37,200
Solar shower Materials	\$200	62	\$12,400
Tools	\$25	62	\$1,550
Transportation	\$40	62	\$2,480
Logistics, supervision and administration	\$100	62	\$6,200
	<i>Total Costs</i>		<i>\$67,330</i>

Project costs  
Phase 1

- Phased Project:
  - Phase 1 (62 latrines), fully financed, duration 12 months, expected start Q3 2017
  - Phase 2 (113 latrines), financial support being secured
- Project Partners
  - Rotary Club La Paz-Sopocachi, Engineers Without Borders – Bolivia, CEDES BOL

# Rotary Follow-up WASH project

## 2017 Eco-sanitation project in West-Bolivia:

- Phase 1 is financed through a multi-district Rotary Foundation Global Grant

Source	contribution	world fund	TOTAL
Rotary District 6920 DDF (Georgia, USA)	\$15,000	\$15,000	\$30,000
Rotary Club Voorburg-Vliet (D1600)	\$1,000	\$500	\$1,500
Rotary Club Delft (D1600)	\$3,638	\$1,819	\$5,457
Rotary Club Sneek (D1590)	\$1,070	\$535	\$1,605
Rotary Club Cloppenburg-Quakenbrück (D1850)	\$5,350	\$2,675	\$8,025
Rotary District 1850 DDF (Germany)	\$10,700	\$10,043	\$20,743
		<b>GRAND TOTAL</b>	<b>\$67,330</b>

- Phase 2 funding still needs to be secured



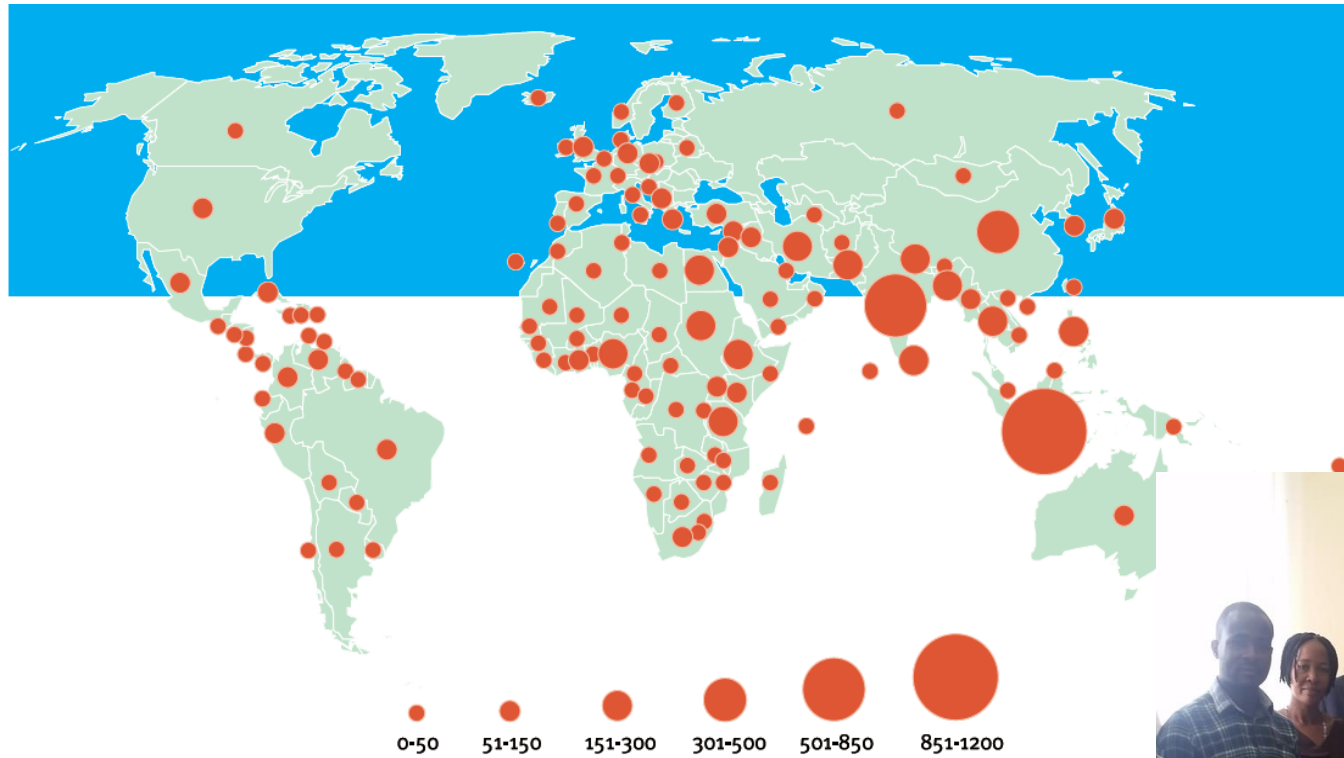
More information:  
<https://spark.adobe.com/page/oIPZsT2RxhBmT/>

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# Future possibilities for cooperation

## Leverage IHE Delft alumni network



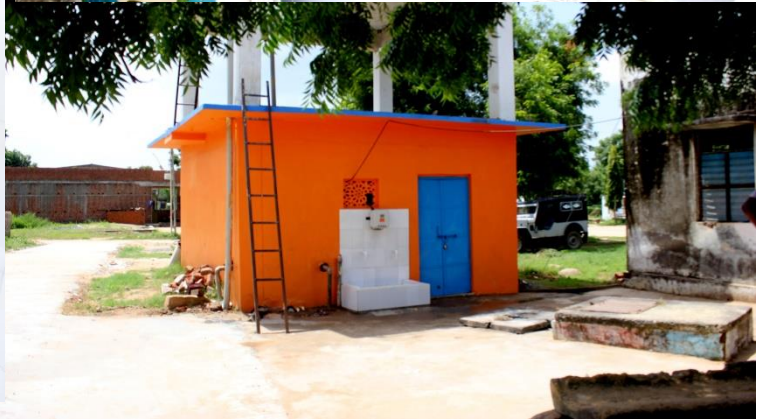
**Total: 15,000+**  
**IHE Delft**  
**alumni**

**Part of Rotary batch**  
**Uganda**



# Future possibilities for cooperation

## Leverage IHE-network to help building WaterShops in India



# Future possibilities for cooperation

## Leverage IHE-network to help building WaterShops in India



### What?

WaterShops are used in small villages in Gujarat, India to purify salt water. A very small charge is asked for this, so that the program is sustainable and can be expanded further

### Who?

RC Delft Vrijhof (D1600) and RC Palanpur (D3051, India) have experience to deliver sustainable drinkwater projects through the WaterShops. Is your Club or IHE Delft interested to join in ?

### More information

Visit the stand of **RC Vrijhof** or contact **Martijn Nitzsche**

# Future possibilities for cooperation

- **Leverage IHE Delft alumni network**
- **Expand scope follow-up WASH projects**
- **Connect WASRAG to IHE Delft**
- **Expand scope Water & Peace Scholarships**

# More Information

["Rotary Voices" blog](#) with stories from our students

**Rotary Voices**

Stories of service from around the world



[Facebook Page](#) of the Scholarship Program



Find us on:  
**facebook**®



[Rotary Scholarship info](#) on IHE Delft website



**IHE**  
DELFT



2013 Video: Expectations  
of the Partnership



2015 Video: Rotary-speech at  
IHE Delft Graduation