



***Past, Present & Future of Kidney Replacement Therapy: It started in Kampen***  
June 24<sup>th</sup>, 2025 in Kampen, the Netherlands

**9:30 Welcome:** Derk Meulman, chairman Willem Kolff Foundation

**9:35 Opening remarks:** Tom Oostrom, Director Dutch Kidney Foundation

**PAST:**

**9:40 It happened in 1945: The first patient who survived acute renal failure by hemodialysis**  
Joop Offerman (MD, PhD) Zwolle, the Netherlands

**10:00 Presentations by 4 patient associations** from: Poland (OSMN), United Kingdom (Kidney Care UK), Canada and USA (AAKP). Kolff built 4 extra hemodialysis machines at his own costs and sent them to these 4 countries, as soldiers from these countries liberated the Netherlands.

**10:20 The first hemodialysis in the USA: 1947 and beyond**

Prof. Jonathan Himmelfarb (MD, PhD), Mount Sinai Medical School, New York, USA

**10:45 Invention of the shunt: The permanent vascular access enabling chronic hemodialysis**

Prof. Buddy Ratner (PhD) Washington University, Seattle, USA

**11:10 Coffee break**

**PRESENT:**

**11:55 Miniaturization by dialysate regeneration**

Christian Blüchel (PhD) NextKidney the Netherlands, Singapore office

**12:20 Newly developed portable machines for hemodialysis and peritoneal dialysis**

Prof. Karin Gerritsen (MD, PhD) UMC Utrecht, the Netherlands

**12:40 Vascular access: Present and future**

Prof. Joris Rotmans (PhD) LUMC Leiden, the Netherlands & President Vascular Access Society

**13:00 Present state of hemodialysis and bridge to future developments**

Fokko Wieringa (PhD) IMEC, Eindhoven & Associate Prof. UMC Utrecht, the Netherlands

**13:20 Lunch**

**FUTURE:**

**14:30 Via portable & wearable hemodialysis towards implantable solutions**

Prof. Shuvo Roy (PhD), UCSF, San Francisco, USA

**14:55 NXTGEN Hightech & KIDNEW projects, working towards implantable hemodialysis**

Fokko Wieringa (PhD) IMEC, Eindhoven & Chairman of EKHA WG3 "Breakthrough Innovation"

**15:15 Transatlantic or even world-wide competition for an implantable artificial kidney**

Murray Sheldon (MD) FDA, Washington DC, USA

**15:40 Applying the lessons from Kolff and Scribner to create a better future**

Prof. Steve Ash (MD), Ash Access Technologies, Lafayette, Indiana, USA

**16:00 Tea break**

**16:35 Hand-out of the Willem Kolff prize** (the "Nobel prize" for innovators of artificial organs)

**17:10 Closing remarks:** Tom Oostrom

**17:15 Drinks** and possibility to **visit the preserved office of Dr. Kolff** at the old hospital (2 min. walk)

A group photo of the assembled innovators will be made at the old hospital

**18:00 For ESAO attendees:** The **bus back to Enschede** leaves from the old hospital "Engelenberg"