

Symposium de l'Institut de la Main et de l'Épaule

PARIS

SEPTEMBER

26-27

2025

40^{ÈME}
ANNIVERSAIRE

**40 YEARS BACK,
40 YEARS AHEAD:**
Future Technologies
in Upper Limb Surgery

President of honor:
Alain Gilbert

Scientific committee:
Caroline Leclercq
Frédéric Teboul
Philippe Valenti

Organization Committee:
Lorenzo Merlini
Nadine Sturbois-Nachef
Omar Boughebri
Jean-Gabriel Delvaque



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TEBOUL Frédéric - France
VALENTI Philippe - France
VIEL Eric - France
VAN DEN RIES Christophe - France
WERTHEL Jean David - France

WELCOME MESSAGES

On the occasion of the 40th anniversary of the Institut de la Main, it is our great pleasure to invite you to celebrate this event with us in Paris, on September 26-27, 2025.

Looking back to the last 40 years, and onwards to the 40 years to come, the theme of the Symposium will be Future Technologies in Hand and Upper Limb Surgery. Our world is changing fast, and so is our surgical practice. Come and discover all the future developments of Hand and Upper Limb Surgery: robotics, augmented and virtual reality, assisted surgery, tissue replacement, artificial intelligence, machine learning, bio-materials, virtual teaching ...

Mark your calendars, and let us know if you want to contribute to the scientific program. More to come soon !

Alain Gilbert
Caroline Leclercq
Philippe Valenti

*Past, present, and future Presidents
of the Institut de la Main et de l'Epaule*

PRESIDENT OF HONOR:

Alain Gilbert

SCIENTIFIC COMMITTEE:

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Frédéric Teboul
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September, Friday
26th

7h15 **Registration**

7h50-8h00 **Welcome / C. LECLERCQ, PH. VALENTI**

8h00h 9h00

- History of the Institut de la Main / **A. GILBERT, R. LISFRANC**
- VR virtual reality/ AR augmented reality / MR mixed reality / **M. ROS**
- What will we be missing in 40 years? / **C. GERBER**
- Discussion

9h00h10h30 **REPLACING THE SURGEON'S HAND**

Navigation robots

- History of Navigation in shoulder surgery / **P.H. FLURIN**
- Navigation robots / **J.D. WERTHEL**
- Discussion

Surgical robots in upper limb surgery

- Around the shoulder
 - Surgical robotic tendon transfers around the shoulder / **C.J. GARCIA**
- Around the hand
 - Robotic hand surgery: current insights and future directions / **P. LIVERNEAUX**
 - Discussion
- In microsurgery
 - Is there room for robotics in microsurgery (literature review) / **J. BRAGA-SILVA**
 - Automatic micro-sutures: a step forward / **J.N. GOUBIER**
 - Robots in hand and lymphatic microsurgery / **M. ATLAN**
 - Discussion

10h30-11h00 **Coffee Break and Exhibition Visit**

11h00-12h00 **REPLACING MAN'S INTELLIGENCE**

Lecture : Integrating AI in orthopedic care and surgery / **D. GHANEM**

- Artificial intelligence and Upper limb surgery
- Machine learning: + simulation / **M.O. GAUCI**
- ChadGPT earns American board certification in hand surgery / **D. GHANEM**

12h00-12h30 **Former fellows'session: my most memorable moment at the Institut de la Main**

12h25 **Group Photo**

12h30-14h00 **Lunch + Industry workshops + Exhibition Visit**

September, Friday
26th

14h00-16h30 REPLACING MAN'S TISSUES

Tissue regeneration :

- Historics of stem cells / **C. ONCIU**
- Fingertip regeneration in Vertebrates: What is possible in humans? / **K. OBERG**
- Discussion

Nerves :

- Historics : Repairing Nerve defects: past and perspectives / **A. GILBERT**
- Enhancing Nerve Regeneration: attempts and disappointments / **M. MERLE**
- Spinal cord repair / **TBC**
- Spinal cord stimulation / **TBC**
- Discussion

Skin :

- Advances in artificial skin : clinical application to dermolysis bullosa / **S. GUERO**
- 3D printing human tissues /
- Severe burns : dermis cloning /
- Discussion

Joint :

- Gleno-humeral osteoarthritis: Can understanding etiology lead to preventive treatment? / **C. GERBER**

Allogenic exosomes. Past, perspectives and future / D. ROSS

- Discussion

16h25

Fellows'session Prize Winner

16h30-17h00

Coffee Break and Exhibition Visit

17h00-17h30

Hand transplants:

- State of the art / **C. DUMONTIER**
- The challenges of macrografts / **P. JEHANNO**

17h30-18h30

REPLACING THE TEACHERS

- 3D Cadaver models (**TBC**)
- Virtual arthroscopy training (**TBC**)
- Virtual library / **M. ROS**
- New bibliographic tools / **J. DESCAMPS**
- How will we replace animal models ? / **F. FITOUSSI**

20h30

GALA DINNER



September, Saturday
27th

8h30-10h00

REPLACING THE SURGEON'S EYE (1)

Connected loupes

- State of the art / **M.O. GAUCI**

Peripheral nerves imaging

- Advances in peripheral nerve imaging, current indications and protocols / **C. VAN DEN RIES**
- AVATAR software to plan nerve microsurgery, and future indications / **F. TEBOUL, N. STURBOIS-NACHEF**
- Sensory nerves: analyzing sensory nerve endings / **S. RHEIN**
- Discussion
- Round table : Brachial plexus imaging : Why are we still unable to detect if a root is functional or not ? / **A. GILBERT, J. BAHM, J.N. GOUBIER, C. SEYROL**

The future of echo-surgery / **O. MARES**

- Discussion

10h00-10h30

Coffee Break and Exhibition Visit

10h30-11h30

REPLACING THE SURGEON'S EYE (2)

Bone and muscle imaging:

- CT based volumetric assessment of rotator cuff muscles / **J.D. WERTHEL**
- Cutting guides : 3D Osteotomy planning / **P. VALENTI**
- Clinical cases / **P. VALENTI** glenoid fossa / **P. JEHANNO** supra-condylar / **C. LECLERCQ** distal radius
- The « digital twin » / **M.O. GAUCI**
- Discussion

Joint and ligaments imaging:

- The future of wrist arthroscopy / **TBC**

11h30-12h10

INNOVATIVE TREATMENTS OF PAIN

- Neuro-modulation techniques for Upper Limb pain: present achievements, future perspectives / **M. BARRERA**
- Botulinum Toxin and pain: a promising perspective ? / **E. VIEL**
- Cryoneurolysis / **R. DAVID**
- Discussion

12h10-12h30

Conference / **A.C. MASQUELET**: 40 years against 400 years...

12h30-13h30

NEW CONCEPTS IN HUMANITARIAN SURGERY

- Sustainable anesthesia / **X. RAINGEVAL**
- Distant teaching platforms / **Ph. VALENTI**

THE BIONIC MAN ...

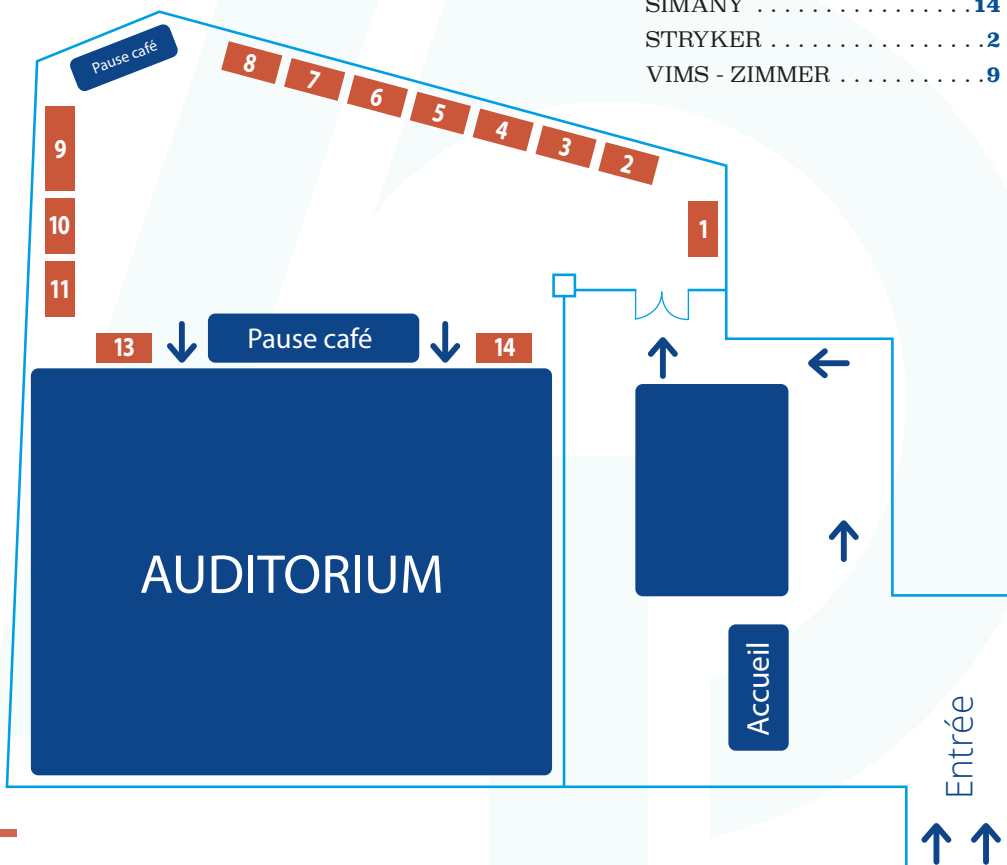
- Targeted muscle reinnervation for prosthetic control / **O. HASMAN**
- Bionic limb prosthesis / **O. HASMAN**
- Discussion

13h30-13h45

Meeting closure / **PH. VALENTI, C. LECLERCQ**

PLAN D'EXPOSITION EXHIBITION AREA

	STAND
ABBOTT	4
ARTHREX	6
FH ORTHO	8
IPSEN	11
KIMEBO	7
KLS	1
MEDARTIS	10
MEDICALEX	13
MERZ	5
NEWCLIP TECHNICS	3
SIMANY	14
STRYKER	2
VIMS - ZIMMER	9



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* Yao J. and Y Song, « Suture-Button Suspensionplasty for Thumb Carpometacarpal Arthritis: A Minimum 2-Year Follow-Up. », J. Hand Surg Am, 2013.

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