

**Richard A. Hillstead, Ph.D., FAHA**  
**3250 Stonecreek Ct.**  
**Suwanee, GA. 30024**

**Abbreviated Curriculum Vitae (04/14)**

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**Professional Experience:**

**Richard A. Hillstead Inc.** Founder, President & CEO 2008 –

*Richard A. Hillstead Inc. is a family owned consulting business that focuses on Medical Device Innovation.*

Services include product development guidance and leadership through all phases of executing a successful program in the highly regulated field of medical device development. Providing expertise on product development from concept through sales release with particular emphasis on capturing and leveraging intellectual property. Additionally, RAH Inc provides expert witness services in the medical device space specializing in endovascular stenting, angioplasty, transcatheter valve replacement, and other vascular interventional devices. RAH Inc is a certified US Government contractor with current CCR, ORCA, and DUNS registrations on file

**Additional Current and Recent Affiliations:**

Emory University – New Technology Advisory Board Member: 2012-

Entrepreneur in Residence – United States Food and Drug Administration (CDRH) 2012-2013

Georgia Venture Partners: Partner 2008 –

Biofisica, Inc: Chairman 2009 -

Accuitive Medical Ventures I: Affiliate Member: 2004 – (currently inactive member)

Accuitive Medical Ventures II: Member: 2007 – (currently inactive member)

Epitek: Board of Directors: 2006 - 2010

**The Innovation Factory:** Founding Member & Chief Science Officer 1999 – 2008

*The Innovation Factory (TIF) is a privately funded medical device incubator/accelerator located in Duluth Ga. TIF seeks out promising new technologies, negotiates a license, funds the new venture through early clinical studies, develops intellectual property, and ultimately launches the fledgling project into a venture funded company.*

**Companies Created:**

Neuronetics – Co-founder, IP diligence and tech transfer from Emory, led in-house R&D effort

Cerebral Vascular Applications (CVA) – Co-founder and Chairman of the Board, Inventor

Liposonix – Co-founder and Project Leader from inception through early animals, Inventor

Acufocus – Co-founder, led initial IP diligence, early deal structure/negotiations

Cellutions – Co-founder, IP Diligence, Managed Technical R&D team and early clinicals

Neovista – Co-founder, Inventor, led technical aspects of R&D, licensing, prototyping

Osteolign – Co-founder, inventor, Project Leader, all aspects of R&D and device prototyping

Aquesis – Co-founder, negotiated license out of University of Western Australia, Perth

Halscion – Co-founder, participated in early IP diligence

**Experience continued:**

Novoste Corporation: Director, New Technology 1996 – 1999

Novoste Corporation: Director, Intravascular Brachytherapy Catheter Project 1993 – 1996

*Novoste Corporation is a world leader in devices used for the treatment of vascular disease through the use of interventional brachytherapy.*

Cordis Corporation: Manager, Product Development, Cardiology 1992 - 1993

Cordis Corporation: Sr. Product Development Engineer, Custom Products 1990 -1992

Cordis Corporation: Sr. Research Engineer, Corporate Research (Stents/Cardiology) 1988 - 1990

Cordis Corporation: Prod Dev Engineer, Cardiology Catheters and Accessories 1987 -1988

*Cordis Corporation (Johnson and Johnson) is a world leader in developing and marketing devices and catheters for use in transcatheter procedures. (Details regarding above companies available upon request)*

**Education:**

2003 - Ph.D., Business Administration, Southwest University, Kenner, LA.

1992 - Master of Business Administration, Nova Southeastern University, Ft. Lauderdale, FL.

1990 - Bachelor of Science, Professional (Eng) Mgt., Nova Southeastern University, Ft. Lauderdale, FL

1974 - Associate in Art, Mechanical Engineering, Miami-Dade Community College, Miami, FL.

**American Heart Association Fellowships and Certificates: (Golden Heart Member)**

Council on Clinical Cardiology - Fellow

Council on Nutrition, Physical Activity, and Metabolism – Fellow

Council on Cardiopulmonary, Critical Care, Perioperative and Resuscitation - Member

Stroke Council – Member

Basic Life Saving (BLS) Current Certification

Advanced Cardiovascular Life Support (ACLS) Current Certification

Adult Heart Rhythm Identification - Certificate

**Recent Presentations:**

Georgia Life Sciences Summit 2014: <http://www.gabio.org/page/Summit2014poster/>

Georgia Life Sciences Summit 2013: <http://www.youtube.com/watch?v=YbHwFPWdlwQ>

Georgia Life Sciences Summit 2011: [http://www.informedhorizons.com/summit2011/Rick\\_Hillstead.html](http://www.informedhorizons.com/summit2011/Rick_Hillstead.html)

Surgical Innovation Convention 2011: <http://www.surginvent.gatech.edu/instructor-bios>

UrologicInvention Convention 2010: <http://uroinvent2010.gatech.edu/faculty-biographies>

Stanford BioDesign Innovation 2008:

<http://www.stanford.edu/group/biodesign/emergingentrepreneurs/speakers.htm>

## Selected Publications:

### Textbook Chapters and Contributions:

**Vascular Brachytherapy:** Edited by R. Waksman, SB King, IR Crocker & RF Mould, Published by Nucletron 1996, Chapter 34, Novoste Intracoronary Radiation System: A Novel Approach to Preventing Restenosis by **Richard A. Hillstead** & Thomas D. Weldon

**Handbook of Vascular Brachytherapy:** Edited by Ron Waksman and Patrick W Serruys, Published by Martin Dunitz LTD., 1998 Chapter 7, The Beta-Cath System by **Richard A. Hillstead** and Cheryl Johnson

**Vascular Brachytherapy: Second Edition** Edited by R. Waksman MD, Published by Futura Publishing, 1999 Chapter 42, Novoste Beta-Cath Intracoronary Beta Radiation System by **Richard A. Hillstead**

**Handbook of Vascular Brachytherapy: Second Edition** Edited by Ron Waksman and Patrick W Serruys, Published by Martin Dunitz LTD., 2000 Chapter 9, The Beta-Cath System by Raoul Bonan, Richard diMonda and **Richard A. Hillstead**

**Biodesign: The Process of Innovating Medical Technologies:** *Senior editors* Stefanos Zenios, Josh Makower, Paul Yock; Copyright © 2010 by the Board of Trustees of the Leland Stanford Junior University; Contributor and Advisor, Rick Hillstead

### Selected Journal Publications:

**Humanitarian Use Devices/Humanitarian Device Exemptions in Cardiovascular Medicine**  
Aaron V. Kaplan, Elisa D. Harvey, Richard E. Kuntz, Hadas Shiran, John F. Robb and Peter Fitzgerald *Circulation* 2005;112;2883-2886 (Acknowledgement)

**The effect of endovascular irradiation on platelet recruitment at sites of balloon angioplasty in coronary arteries.** Salame M, Verheye S, Mulkey SP, Cui J, Chronos NA, King SB III, Crocker IR,. *Circulation* 1999 (submitted). (Acknowledgement)

### **Endovascular $\beta$ -Radiation to Reduce Restenosis After Coronary Balloon Angioplasty Results of the Beta Energy Restenosis Trial (BERT)**

Spencer B. King, III, MD; David O. Williams, MD; Prakash Chougule, MD; J. Larry Klein, MD; Ron Waksman, MD; Richard Hilstead, MBA; Joan Macdonald, PhD; Kris Anderberg, RN; ; Ian R. Crocker, MD (*Circulation*. 1998;97:2025-2030.) © 1998 American Heart Association, Inc

**Intracoronary low-dose  $\beta$ -irradiation inhibits neointima formation after coronary artery balloon injury in the swine restenosis model.** Waksman R, Robinson KA, Crocker IR, Wang C, Gravanis MB, Cipolla GD, **Hillstead RA**, King SB III. *Circulation* 1995;92:3025-3031.

**Effects of endovascular irradiation on platelet recruitment at sites of balloon angioplasty in pig coronary arteries.** Salame M, Lampkin J, Mulkey SP, Cui J, Verheye S, Hillstead RA, Crocker IR, Chronos NAF, King SB III, Robinson KA. *J Am Coll Cardiol* 1999;33(2 Supp A);44A.

**Efficacy and safety of  $\beta$  versus  $\gamma$  radioisotopes for endovascular irradiation in prevention of intimal hyperplasia after balloon angioplasty in swine coronaries.** Waksman R, Robinson KA, Crocker IR, Wang C, Gravanis MB, Cipolla GD, Hillstead RA, King SB III. *Circulation* 1995;92(8):I-146.

**Intracoronary low dose  $\beta$  particle irradiation inhibits neointima formation after balloon angioplasty of swine coronary arteries.** Waksman R, Robinson KA, Crocker IR, Wang C, Gravanis MB, Cipolla GD, Hillstead RA, King SB III. *Circulation* 1995;92(8):I-146.

**The Feasibility of Temporary Vascular Stenting**

Richard Shlansky-Goldberg, Robert F. LeVeen, **Richard A. Hillstead**, Hospital of the University of Pennsylvania, Philadelphia, PA. Presented at The International Congress IV in Scottsdale AZ., Feb 1991

**The Feasibility of Temporary Vascular Stenting**

Richard Shlansky-Goldberg, Robert F. LeVeen, **Richard A. Hillstead**, Constantine Cope, Hospital of the University of Pennsylvania, Philadelphia, PA. Presented at The American College of Cardiology 40<sup>th</sup> Annual Scientific Sessions, Atlanta GA. March 3-7 1991

**Temporary Vascular Stenting** Richard Shlansky-Goldberg, Robert F. LeVeen, **Richard A. Hillstead**, Constantine Cope, Hospital of the University of Pennsylvania, Philadelphia, PA. Presented at The RSNA in Chicago, IL November 26<sup>th</sup> 1990

**A New Flexible Radiopaque Endovascular Stent: Initial Experimental Results**

Joseph B. Muhlestein, Peter J. Quigley, Eileen Mikat, David C. MacGregor, **Richard A. Hillstead**, Richard S. Stack. Duke University, Durham, NC. Presented at the 62<sup>nd</sup> Scientific Sessions of the American Heart Association, New Orleans, LA. , November 13-16 1989

**A New Flexible Radiopaque Endovascular Stent: Initial Experimental Results and Angiographic Follow-Up**

Joseph B. Muhlestein, David C. MacGregor, **Richard A. Hillstead**, Michael D. Colliver, Paul E. deCoriolis, Richard S. Stack. Duke University, Durham, NC. Presented at the Scientific Sessions of the American College of Cardiology, March 19-23 1989

**A New Highly Flexible Balloon Expandable Endovascular Stent: Initial Experimental Results with Follow-Up**

Peter J. Quigley, Michael H Sketch, David C. MacGregor, Paul E. deCoriolis, **Richard A. Hillstead**, Eileen Mikat, Earl F. Saum, Richard S. Stack. Duke Medical Center, Durham, NC. Presented at the Laser and Stent Therapy in Vascular Surgery International Congress II, Phoenix, AZ., February 10-15 1989

**USPTO Issued Patents & Pending Applications**  
**Richard A. Hillstead, Ph.D.**  
**As of 02/20/2014**

**Issued US Patents:**

<b>Pat #</b>	<b>Description</b>
1 8,647,363	Robotically controlled hydraulic end effector system
2 8,365,721	Methods and apparatus for intraocular brachytherapy
3 8,308,757	Hydraulically actuated robotic medical instrument
4 8,292,795	Methods and apparatus for intraocular brachytherapy
5 8,043,328	Medical instrument
6 7,951,060	Methods and apparatus for intraocular brachytherapy
7 7,922,742	Medical instrument
8 7,841,984	Ultrasonic treatment and imaging of adipose tissue
9 7,803,103	Methods and apparatus for intraocular brachytherapy
10 7,803,102	Methods and apparatus for intraocular brachytherapy
11 7,744,520	Method and apparatus for intraocular brachytherapy
12 7,563,222	Methods and apparatus for intraocular brachytherapy
13 7,503,474	Medical instrument
14 7,311,656	Automated system for the radiation treatment of a desired area within a patient
15 7,258,674	Ultrasonic treatment and imaging of adipose tissue
16 7,160,238	Method and apparatus for treating a desired area in the vascular system of a patient
17 7,066,873	Automated system for the radiation treatment of a desired area within a patient
18 7,066,872	Method and apparatus for treating a desired area in the vascular system of a patient
19 7,025,716	Intraluminal radiation treatment system
20 6,994,665	Method and apparatus for treating a desired area in the vascular system of a patient
21 6,830,174	Medical instrument
22 6,755,338	Medical instrument
23 6,659,934	Automated system for the radiation treatment of a desired area within a patient
24 6,610,003	Intraluminal radiation treatment system
25 6,503,185	Method and apparatus for treating a desired area in the vascular system of a patient
26 6,458,070	Method and apparatus for treating a desired area in the vascular system of a patient
27 6,306,074	Method and apparatus for radiation treatment of a desired area in the vascular system
28 6,261,219	Intraluminal radiation treatment system
29 6,013,020	Intraluminal radiation treatment system
30 5,980,492	Vascular blood containment device
31 5,899,882	Catheter apparatus for radiation treatment of a desired area in the vascular system
32 5,820,596	Vascular blood containment device

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