

The Chip Insider[®]

2020 All Stars and Hall of Fame

- **All Stars of the Semiconductor Industry**

Doug Lefever

Gary Dickerson (HoF 2006)

Hamid Zarringhalam

Martin van den Brink (HoF 2006)

Oreste Donzella

Rick Gottscho

Rick Wallace (HoF 2018)

Ruurd Boomsma

Stefano Felici, Roberto Crippa, and Cristiano Crippa

Tony (Toshiki) Kawai

- **New Inductees to the SEMICONDUCTOR INDUSTRY HALL OF FAME**

Herbert Blaschitz

Ajit Manocha

Mark Jagiela

Heinz Kundert

Tom Sonderman

Wally Rhines

- **Semiconductor Industry Hall of Fame Members**

VLSIresearch's ALL STARS OF THE CHIP MAKING INDUSTRY

- These are the executives who made the most of this year
- For some, it has taken several years of methodical execution to an overarching strategy to bring this year together
- For others it was about being fleet of feet
- They will tell you they are parts of bigger teams who really made it possible
 - It's true but these people took the point, making them the most visible for either adulation or the well-placed sniper's bullet
- They have led the industry and their companies forward, for which we can all be thankful

VLSIresearch's 2020 All Stars of the Semiconductor Industry

Doug Lefever — All Star 2020: During Doug's tenure as CEO of Advantest America, the company has become a leading supplier of test technologies to US based fabless semiconductor suppliers

- Strong technology development leadership at Advantest is critical to his role in building Advantest's strong position in Test
- He has been part of the Global Advantest leadership, making the company the largest semiconductor test supplier
- Superior capabilities building partnerships to enter into new technologies as evidenced in recent partnership with PDF solutions



ADVANTEST®

VLSIresearch's 2020 All Stars of the Semiconductor Industry

Gary Dickerson— All Star 2020: For laying out the environmental responsibility vision for the semiconductor capital equipment industry

- Semicon West keynote laid out comprehensive actions and goals for Applied Materials that serves as a benchmark for the industry and supply chain
- These actions are the seeds of an industry transformation into global environmental leadership that is a benchmark for other industrial segments
- Applied Materials is not only the industry leader in revenues but also in environmental responsibility



VLSIresearch's 2020 All Stars of the Semiconductor Industry

Hamid Zarringhalam— All Star 2020: For keeping the competitive flame in lithography by transforming Nikon's customer relationship from selling to partnering

- Hamid worked tirelessly to partner with real customers who were serious about win-win deals, while working to prune predatory customers that only used them as a price foil against its competitors
- Doing so returned the group to a state of profitability while continuing to innovate, thus helping to keep the market competitive



VLSIresearch's 2020 All Stars of the Semiconductor Industry

Martin van den Brink — All Star 2020: EUV is reality and extends Moore's law down to 3nm; the world needs Hi-NA EUV nodes beyond 3nm and Martin continues to drive Lithography ecosystem to deliver it

- Martin and his team have the track record and capability to work through the lithography ecosystem and partner in R&D to provide timely insertion for 2nm production
- His leadership is absolutely critical for semiconductors to reach \$1T in revenues and to drive Wafer Fab Equipment into a \$100B industry
 - Transistor cost reductions are largely achieved through breakthroughs in lithography



ASML

VLSIresearch's 2020 All Stars of the Semiconductor Industry

Oreste Donzella — All Star 2020: For charting KLA's path into new markets related to More than Moore semiconductor technologies

- As semiconductor technologies penetrate into everyday life, such as Automotive and Medical markets, reliability requirements increase substantially
 - KLA is in perfect position to capitalize on this with its yield management capabilities
- Oreste has played a critical role, including the Orbotech acquisition in 2018
- 2020 results have proven this strategy extremely successful



VLSIresearch's 2020 All Stars of the Semiconductor Industry

Rick Gottscho — All Star 2020: For technology leadership that built Lam Research's Etch business into the leadership position it conveys today

- Rick carried both a technology and business leadership role through Lam's growth into multiproduct powerhouse in etch, deposition, and cleaning
- Strong engineering background highly respected by customers, building Lam's laser-sharp customer focus
- Substantial contributions to plasma science technology through scientific communities



VLSIresearch's 2020 All Stars of the Semiconductor Industry

Rick Wallace — **All Star 2020:** It's been just over four years since the failed merger with Lam... long enough to demonstrate Rick's extraordinary leadership skills

- Failed mergers can be especially dangerous, as a company will be adrift while the deal awaits approval
- Worse, the best people typically leave for greener, less risky, pastures
- Not only was Rick able to keep his people, he's managed to be the first CEO at KLA to successfully set new directions outside the company's core strength
- All while navigating the dangerous COVID-19 waters



VLSIresearch's 2020 All Stars of the Semiconductor Industry

Ruurd Boomsma— All Star 2020: For directing development of BESI's leading-edge products such as the Hybrid Bonding, which has potential to change semiconductor manufacturing into more effective integration schemes

- BESI's leadership in packaging was enabled by Ruurd's guidance
- Played a critical role in developing BESI's leadership in advanced IC die placement technologies
- Ruurd's work is moving semiconductor manufacturing and packaging into higher integration technologies that will help manufacturers deliver higher performing products



VLSIresearch's 2020 All Stars of the Semiconductor Industry

Stefano Felici, Roberto Crippa and Cristiano Crippa — All Stars 2020: For building Technoprobe, a company founded by Giuseppe Crippa in 1995, into the market leader in non-memory probe card market

- They have built Technoprobe into leadership of non-memory test probe card suppliers
- Technoprobe has grown over the years from a local Italy and Europe based supplier into a global powerhouse spanning all critical semiconductor supplier regions
- The company has demonstrated 29% CAGR over last three years compared to 9% CAGR for the overall Non-Memory Probe Card Market



VLSIresearch's 2020 All Stars of the Semiconductor Industry

Tony (Toshiki) Kawai— All Star 2020: Kawai-san's results clearly show TEL has surmounted its succession woes of the past with his leadership and willingness to risk major commitments to capture opportunities well down the road

- TEL took the number three spot in WFE, due to their development of a more balanced customer portfolio
- This came as a result of more open sharing of their roadmap and early engagement with customer R&D, which put them on the road to greater sales once these processes went to mass production
- TEL's bold investment in production capacity – building three major facilities in three years – enabled that strong growth
- TELeMetrics™ remote maintenance positioned them for COVID-19



SEMICONDUCTOR INDUSTRY HALL OF FAME

- For executives who have made systematic contributions to the semiconductor industry*
- Whose contributions advanced
 - Customers
 - Technology
 - Moore's Law
 - Business Fundamentals
- Without them, our industry would be much smaller
 - And would have had a much smaller impact on everyone's lives around the globe

* The Hall of Fame was opened up to contributors outside manufacturing in 2016.
Please bear with us while we catch up with executives of historical interest.

New Inductee to **VLSI**research's Semiconductor Industry Hall of Fame

Herbert Blaschitz — HoF: If you are planning a fab, Herbert is the first person you call; he grew Exyte into a world leader Fab project engineering firm

- Herbert has been responsible for building Exyte into the only engineering company with a global reach in all critical semiconductor manufacturing regions
- He established a strong but measured presence in China to capture emerging opportunities in the region
- With adjacent opportunities in Critical Subsystems and Equipment Installation management services



exyte

New Inductee to **VLSI**research's Semiconductor Industry Hall of Fame

Ajit Manocha — HoF: Steered SEMI through its business model challenge from COVID-19 and raised its relevance as geopolitics swarmed over the semiconductor industry again

- Ajit was also critical in the formation of the Fabless-Foundry model
- While at Philips, Ajit addressed capital limitations by pivoting away from the vertical IDM model, using what he had to fund the earliest foundries well before they were called foundries; his partnership with TSMC and Morris Chang was critical to their early success
- Has been an unwavering champion of American Manufacturing and industry associations



New Inductee to **VLSI**research's Semiconductor Industry Hall of Fame

- Mark Jagiela** — HoF: Built Teradyne's Semiconductor Test business into a solid base to drive expansion into adjacent manufacturing automation technologies and markets
- Strong and consistent leadership in semiconductor test continues to be key driver of expansions across its businesses
 - Expansion into manufacturing test and automation brands is transforming Teradyne into a new powerhouse with reach into new industries
 - Teradyne's background in semiconductor test and quality is a perfect core strength to expand its reach in multiple industries



TERADYNE

New Inductee to **VLSI**research's Semiconductor Industry Hall of Fame

Heinz Kundert — HoF: The executive investors turn to when they need to transform an introverted European company into a global semiconductor industry player

- His substantial industry experience and expertise at building solid organizations have been important to delivering critical products and services to semiconductor manufacturers worldwide
- He has a unique ability to weave the strengths and weaknesses of a European organization into the global requirements of the semiconductor industry with a proven track record of attracting talent



comet

New Inductee to **VLSI**research's Semiconductor Industry Hall of Fame

Tom Sonderman — HoF: If any single person can be credited with preparing our industry for COVID-19, it has to be Tom. His pioneering leadership in developing the first functional wafer fab AI decision-making system dates back 20-some-odd years ago, when most fabs were running on spreadsheets. This technology enabled the industry to keep fabs functioning in the wake of the pandemic.

More recently, he's been leading a team that's saving American specialty semiconductor manufacturing. SkyWater has done nothing but grow since it was spun out of Cypress, as they've gone after a broad swath of advanced technologies.



New Inductee to **VLSI**research's Semiconductor Industry Hall of Fame

Wally Rhines — **HoF**: Wally is an industry legend, having climbed the ladder to run TI's semiconductor and data systems groups and then left to run Mentor

- At TI he successfully laid the groundwork for exiting memory, while taking a majority share of the DSP market
- At Mentor Wally took over as CEO and built revenues from a third to over a billion dollars; in an era of major M&A in the EDA industry, the growth he enabled kept Mentor among the top three EDA companies in the world throughout his tenure



Mentor[®]
A Siemens Business

SEMICONDUCTOR INDUSTRY HALL OF FAME

Aart de Geus (2012)	Gary Patton (2016)	Ken Schroeder (1996)	Peter Wennink (2018)
Ajit Manocha (2020)	Gordon A. Campbell (2016)	Kouichi Uehara (2007)	Randhir Thakur (2012)
Alex d'Arbeloff (1993)	Gordon Moore (2016)	Larry Sumney (2009)	Ray Stata (2018)
Amy Gold (2018)	Haruo Matsuno (2014)	Lisa Su (2017):	Ray Thompson (2006)
Andrew Grove (2016)	Heinz Kundert (2020)	Mark Bohr (2006)	Richard Blickman (2011)
Andy Bryant (2016)	Herbert Blaschitz (2020)	Mark Durcan (2017)	Rick Wallace (2018)
Arthur del Prado (1993)	Howard Moss (2018)	Mark Jagiela (2020)	Robert Boehlke (2005)
Arthur Zafiropoulo (1994)	Irwin Jacobs (2017)	Martin van den Brink (2006)	Robert Graham (1993)
Barry Rapozo (2006)	James Bagley (1994)	Mike Bradley (2013)	Robert H. Dennard (2019)
Bill Holt (2015)	James Morgan (1993)	Mike Cadigan (2008)	Robert Holzel (1993)
Bob Huston (2006)	Jean LeMoin (1994)	Mike Polcari (2009)	Robert Noyce (2016)
C. Scott Kulicke (1994)	Jensen Huang (2017)	Mike Splinter (2007)	Robin Saxby (2017)
Charlie Sporck (2016)	Jerry Sanders III (2018)	Morris Chang (2016)	Roger Emerick (1993)
Dan Maydan (1996)	John E. Kelly III (2019)	Nicholas DeWolf (2019)	Sanjay Jha (2017)
Egon Putzi (2006)	Jon Tompkins (1996)	Paolo Gargini (2009)	Shoichiro Yoshida (1993)
Eric Meurice (2008)	Julius E. Lilienfeld (2019)	Papken Der Torossian (1994)	Steve Newberry (2011)
F.C. Tseng (2019)	Karl Nicklaus (1994)	Patrick E. Haggerty (2016)	Sunlin Chou (2006)
Gary Dickerson (2006)	Kazuo Ushida (2007)	Patrick Lam (2006)	Terry Higashi (2005)
Gary Heerssen (2012)	Ken Levy (1995)	Paul Otellini (2017)	Tokuo Kubo (1993)

SEMICONDUCTOR HALL OF FAME & ALL STARS

Tom (Tetsuo) Tsuneishi (2015)
 Tom Caulfield (2019)
 Tom Sonderman (2020)
 Toshio Maruyama (2009)
 Wally Rhines (2020)
 Walt Mathews (1995)
 Winfried Kaiser (2008)
 Yasuo Naruke (2018)

Atsushi (Art) Horiba (17)
 Aya Maria Thallner (14)
 Barry Mayer (15)
 Bill Holt (13)
 Bob Bruck (12)
 Brad Mattson (96)
 Brian Krzanich (12)
 Brian Trafas (13)
 Bruno Guilmart (12)
 C. Scott Kulicke (95 96)
 Chandra Mouli (05)
 Charlie Lewis (96)
 Chris Koliopoulos (04 05)
 Chuck Del Prado (14)
 Cliff Hou (16)
 Cristiano Crippa (20)
 Dalia Vernikovskiy (19)
 Dan Maydan (95 96)
 David Wang (93 96)

Deirdre Hanford (17)
 Dennis P. McGuirk (13)
 Doug Grose (05)
 Doug Lefever (20)
 Egon Putzi (04)
 Eric Meurice (06 12)
 Erich Thallner (14)
 Ernie Godshalk (04)
 Frits van Hout (15)
 Gary Dickerson (05 13 20)
 Gary Hillman (93)
 Gary Patton (12)
 Geert Follens (18)
 Geoff Wild (13)
 Gerald Z. Yin (18)
 Graham Miller (94)
 Gregory Smith (15)
 Hamid Zarringhalam (20)
 Han Westendorp (19)

Haruo Matsuno (12)
 Hector Ruiz (08)
 Heinz Kundert (16)
 Herbert Blaschitz (14)
 Irwin Pfister (93)
 Israel Niv (94 11 15)
 J.K. Park (16)
 Jack Sun (14 16)
 James Bagley (93 95 96)
 James Morgan (95 96)
 Jan Lipton (93)
 Jean LeMoin (93 95)
 Jim Gentilcore (13)
 John E. Kelly III (14)
 Jon Tompkins (95)
 Judy Davies (19)
 Karen McLennan (96)
 Kate Wilson (19)
 Kathy Price (96)

ALL STARS

Aart de Geus (15)
 Abdul Lateef (13)
 Ajit Manocha (19)
 Ali Salehpour (18)
 Andre-Auberton Herve (07)
 Andy Bryant (18)
 Archie Hwang (05)
 Arthur Zafiropoulo (93 96 12)
 Asher Levy (16)

SEMICONDUCTOR ALL STARS

Kazuo Ushida (07 18)	Masaki Kato (11)	Paul Otellini (08)	Sanchali Bhattacharjee (19)
Keith Barnes (08)	Masashi Oka (18)	Paul Rawlings (15)	Sanjay Jha (14)
Ken Levy (96)	Michael L. Parodi (94)	Paul van Wijnen (19)	Sanjay Mehrotra
Ken Schroder (96 04)	Michael Plisinski (19)	Peter Wennink (17)	Sass Somekh (94 96)
Kenneth L. Schroeder (95)	Michael Plisinski (19)	Prabu G. Raja (19)	Seiichi Takikawa (94)
Kevin Conlon (96 11)	Mihir Parikh (95)	Prabu G. Raja (19)	Shoichiro Yoshida (95)
Larry Murphy (05 06)	Mike Cadigan (05)	Randall Hughes (94)	Stefano Felici (20)
Larry Smith (19)	Mike Splinter (04 07 13)	Randhir Thakur (11)	Steve DeOrnellas (95)
Lee Wai Kwong (17)	Mord Weisner (96)	Reinhart Richter (11)	Steve Newberry (04)
Lisa Su (19)	Morris Chang (11)	Richard Aurelio (04)	Sundar Ramamurthy (14)
Lucas van Grinsven (08)	Neil Bonke (96)	Richard Blickman (07 18)	Terry Higashi (07 13)
Luis Müller (17)	Oh-Hyun Kwon (08)	Rick Gottscho (20)	Tim Archer (19)
Lynn Neillie (94)	Omkaram (Om) Nalamasu (17)	Rick Wallace (06 15 20)	Tim Moriarty (17)
Mark Bohr (05 16)	Oreste Donzella (20)	Robert Akins (12)	Tom (Tetsuo) Tsuneishi (14)
Mark Jagiela (14)	Paolo Gargini (08)	Robert Boelke (96)	Tom Caulfield (16 18)
Martijn Pierik (18)	Papkin Der Torossian (93 96)	Robert Graham (94)	Tom Kubo (96)
Martin Anstice (12 14 15 17)	Patrick Lam (93)	Roberto Crippa (20)	Tom Newsom (96)
Martin van den Brink (20)	Patrick Lord (18)	Ross Young (94)	Tom Sonderman (05)
Mary Puma (14)	Paul Boudre (15)	Ruurd Boomsma (20)	Tony (Toshiki) Kawai (17 20)

SEMICONDUCTOR ALL STARS

Toshikazu Umatate (18)

Toshio Maruyama (04)

Trevor Norman, (12)

Wally Rhines (15)

Wasuke Nakano (05 06)

Willem Marris (94)

William Reed (95)

William Spencer (93)

Yaron Barkan (15)

Yasushi Akao (11)

Yoshiaki Yoshida (18)



Thank You

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