Curriculum Vitae Daniel J. Blumenthal

Distinguished Professor				Tel: (805) 893-4168		
University of California				Fax: (89	5) 893-7990	
Santa Barbara, CA 93106					Email: danb@	ece.ucsb.edu
EDUCATION					<u> </u>	
Ph.D.	Electrical Engineer		rino	University of Colorado	o Boulder, CC	1993
M.S.	Electrical E	_	-	Columbia University	New York, NY 19	
B.S.	Electrical E	-	•	University of Rochesto	-	
EMPLOYME		•	8	,,	, -	
Distinguished Pr			anta Barba	ra	Santa Barbara, CA	2021-Present
Director	.0105501		oit Optical Ethernet Center, UCSB		Santa Barbara, CA Santa Barbara, CA	2010-Present
Professor			anta Barba		Santa Barbara, CA Santa Barbara, CA	2000-2021
Director of Engi	naarina			ed Technologies (CAT)	Santa Barbara, CA Santa Barbara, CA	2015-2016
CTO	ncering		et Photonic	• , ,	Santa Barbara, CA Santa Barbara, CA	2013-2016
Associate Direct	· O#			y Optical Switching	Santa Barbara, CA Santa Barbara, CA	1997 – 2001
Associate Direct	.01			OST) Center	Salita Dalbara, CA	1997 – 2001
Associate Profes	ssor	UCSI	•••	,	Santa Barbara, CA	1997-2000
Assistant Profess		Georg	- gia Institute	e of Technology	Atlanta, GA	1993-1997
Graduate Resear			ersity of Co		Boulder, CO	1990-1993
Research Engine	eer		ersity of Pennsylvania		Philadelphia, PA	1988-1990
Research Engine			nbia University New York, NY		=	1985-1988
Senior Engineer			rs Research	•	Boulder, CO	1984-1985
•		geTek		Louisville, CO	1981-1984	
HONORS AN	D AWARD	S				
Recipient			C. E. K. N	Mees Medal, Optical Soc	ciety of America	2020
Founding Univer	rsity Affiliate		Microsoft	Optical for the Cloud In	nitiative	2019
Fellow	·		National A	National Academy of Inventors (NAI) 2		2017
Visiting Faculty	Researcher			osoft Research (MSR) Cambridge, U.K. 20		2017
Education and O	utreach Com	mittee	Santa Bar	arbara Bowl Foundation, Santa Barbara, CA 2016-		2016-2019
Board of Directo	ors		Unite to Light (Non-Profit), Santa Barbara, CA		2016-2017	
Board Member (Elected)		Researcher Seat on the Internet-2		2008 - 2012	
,		Architecture & Operations Advisory Council				
Fellow		Optical Society of America (OSA)		2006		
Primary Member (PI)		NSF MFREC GENI Planning Group		2003-2007		
•		(a \$350M NSF National networking infrastructure).				
Board of Directors		National l	National LambdaRail, Inc. (NLR)		2003 - 2010	
Fellow		IEEE/LEG	EEE/LEOS/Communications Society		2003	
Presidential Early Career Award for		White Ho		-	1999	
Scientists and Er	ngineers (PEC	CASE)				
Best Transactions Paper Award		IEEE Edu	cation Society		1999	
Young Investigator Program (YIP)		Office of	Naval Research		1997	



Senior Member	IEEE	1997
Chairman	Atlanta Chapter of the LEOS/ED Society	1996-1997
National Young Investigator (NYI)	National Science Foundation	1994
Secretary	Atlanta Chapter of the LEOS Society	1994-1995
North American Representative	IEEE/COMSOC Coord. Committee for OFC	1993

COMPANIES FOUNDED

SinOptiQ	Santa Barbara, CA	Founded 2022
Packet Photonics	Santa Barbara, CA	Founded 2007
Calient Networks	Santa Barbara, CA	Founded 1999

CONSULTING

Expert Witness and IP Consulting		2013 to Present
Coriant Advanced Technologies (CAT)	Santa Barbara, CA	2016 to 2017
Packet Photonics	Santa Barbara, CA	2007 to 2014
Aurrion, Inc.	Santa Barbara, CA	2011 to 2012
BBN	Cambridge, MA	2008 to 2013
Luminit	Torrence, CA	2007 to 2013
Tellabs	Boston, MA	2007
Sun MicroSystems	Santa Clara, CA	2004 - 2006
Calient Networks	Santa Barbara, CA	1999-2003
Gannon, Inc.	Chicago, IL	1997-1998
Siemens Corporate Research	Princeton, NJ	1993
Bernoulli/Iomega	Boulder, CO	1991-1993

PUBLICATION SUMMARY (REFEREED AND INVITED)

Books and Book Chapters	
Invited Journal Publications and Articles	
Keynote, Plenary and Invited Presentations	
Postdeadline Conference Papers	
Journal Publications	
Conference Papers	
Total	524



PATENT SUMMARY

Total Issued U.S. Patents: 23

	US Patent No.	Issuance Date	Title
1 7,379,668		4/2/02	Optical Amplification in Photonic Switched
1	7,577,000	7/2/02	Crossconnect Systems
2	6,643,425	11/4/03	Optical Switch Having Switch Mirror Arrays Controlled by Scanning Beams
3	6,697,547	2/24/04	Wavelength Power Equalization by Attenuation in an Optical Switch
4	6,778,739	8/17/04	Wavelength Selective Optical Switch with Aligned Input and Output Substrates
5	6,792,177	9/14/04	Optical Switch with Internal Monitoring
6	6,912,359	6/28/05	Methods for Monitoring Performance in Optical Networks
7	7,050,717	5/23/06	System and Method of All Optical Label Swapping Using Two-Stage Optical Wavelength Converters
8	7,142,744	11/28/06	Wavelength Power Equalization by Attenuation in an Optical Switch
9	7,184,189	2/27/07	Apparatus for Simultaneous OTDM Demultiplexing, Electrical Clock Recovery and Optical Clock Generation, And Optical Clock Recovery
10	7,196,833	3/27/07	Apparatus for Simultaneous OTDM Demultiplexing, Electrical Clock Recovery and Optical Clock Generation, And Optical Clock Recovery
11	7,310,363	12/18/07	Integrated Wavelength Tunable Single and Two-Stage All-Optical Wavelength Converter
12	8,644,713	2/4/14	Optical Burst Mode Clock and Data Recovery
13	9,285,540	3/15/16	Integrated Dielectric Waveguide and Semiconductor Layer and Method Therefor
14	9,370,123	6/14/16	System and Methods for Reduced Power Consumption and Heat Removal in Optical and Optoelectronic Devices and Subassemblies
15	9,385,814	7/5/16	Wavelength Tunable Arrays for Data Communications
16	9,407,426	8/2/16	Optical Network Interface, Module and Engine
17	9,413,521	8/9/16	Programmable Optical Subassemblies and Modules
18	9,438,355	9/6/16	Control Systems for Optical Devices and Subassemblies
19	9,543,737	1/10/17	Fast Calibration and Programming Optical Components
20	9,638,859	5/2/17	Optical Fiber Alignment Device
21	9,755,753	9/5/17	Tunable U-Laser Transmitter with Integrated Mach- Zehnder Modulator
22	9,817,197	11/14/17	Optically Aligned Hybrid Semiconductor Device and Method
23	10,222,565	3/5/19	Optically Aligned Hybrid Semiconductor Device and Method



EDITING JOURNALS

Editorial Board	Nature, Light, Science & Applications (LSA)	2022 - 2025
Primary Guest Editor	IEEE Journal on Selected Area in Quantum Electronics (JSTQE)	2018
	Special Issue on Ultra Low-Loss Optical Waveguides	
Associate Editor	IEEE Photonics Technology Letters (PTL)	2000-2004
Associate Editor	IEEE Photonics Technology Letters (PTL)	1997-2000
Associate Editor	SPIE Optical Networks Magazine	2001 - 2008
Guest Editor	IEEE Journal on Selected Area in Quantum Electronics (JSTQE)	2007
	Special Issue on High Speed Integrated Photonics	
Primary Guest Editor	IEEE Journal on Selected Areas in Communications	2002
·	Special Issues on Optoelectronic and Optical Routers	
Associate Editor	IEEE Transactions on Communications	1996-2000
Primary Guest Editor	IEEE Journal of Lightwave Technology (JLT)	1998
-	Special Issue on Photonic Packet Switching	

PROFESSIONAL ACTIVITIES

Topical Meeting Organizer	IEEE Summer Topical Meeting on "Visible Light Integrated Pho and Application to Atomic and Quantum Sensing, Communicati	
	Computing (VLIP)"	
Symposia Organizer	OFC Symposium on "Ultra-Stable Frequency Sources and their	2023
	Future Applications in Telecom I"	
Subcommittee Chair	S2, Optical Fiber Communications OFC 2019, San Diego, CA	2021
Steering Committee	WOMBAT International Meeting on Interactions	2019-present
	Between Light and Sound	
Evaluator	IEEE Photonics Society Fellow Evaluating Committee	2020
Traveling Faculty Lecturer	Optical Society of America (OSA)	2019-present
Committee Member	Optical Society of America (OSA)	2018-2019
	Corning Women in Optical Communication Scholarship	
Committee Member	National Academy of Inventors (NAI)	2018 - 2021
	Fellow Advisory Committee	
Committee Member	National Academy of Inventors (NAI)	2019
	Senior Member Advisory Committee (SMAC)	
TPC Member	Optical Fiber Communications OFC	1997-2000, 2018-2020
Workshop Organizer	OFC Workshop on "Super DACs and ADCs –	2019
1 2	To interleave or not to interleave?" OFC 2019 San Diego, CA	
Workshop Organizer	OFC Workshop on "Beyond Silicon Photonics," OFC 2018	2018
1 2	San Diego, CA	
TPC Member	Topical Meeting on Photonics in Switching 1995,1997, 2008-2	2010, 2012, 2014, 2015
TPC Member	25th International Conference on Indium Phosphide and Related	
	Materials (IPRM) Kobe, Japan on May 20-23	
General Program Chair	IEEE Photonics Society First Topical Meeting	2011
2	on Terabit Optical Ethernet	
TPC Member	IEEE Photonic Society Topical Meeting on	2010
	Photonics for Routing and Interconnects	
Session Chair	First Asian Himalayas International Conference	2009
	on Internet AH-ICI2009	
Steering committee	Opto-Electronics and Communications Conference (OECC) and	the 2008
	Australian Conference on Optical Fibre Technology (ACOFT)	2008
TPC Member	ACM/IEEE 4 th Symposium on Architectures for	2008
	Networking and Communications Systems (ANCS)	
TPC Member	ONS Subcommittee, LEOS Annual Meeting	2007
TPC Member	FiWi SubCom Meeting at ICC/Globecomm, Glasgow, UK	2007
TPC Member	APOC03: Optical Transmission, Switching	2007
·	And Subsystems, Nov. 5-9, Wuhan, China	_ = • • /
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TPC Member	IEEE/LEOS Topical Meeting on Optical Networks and Systems	2007
TPC Member	3rd ACM/IEEE Symposium on Architectures for Networking	2007
II & Wellioti	and Communications Systems (ANCS)	2007
Guest Editor	IEEE Journal on Selected Areas in Quantum Electronics (JSTQ)	E) 2006 – 2007
3 44 50 2 4 1101	Special Issue on High Speed Integrated Photonics	2000 2007
TPC Member	OSA Nonlinear Photonics Meeting,	2006 - 2007
	Nonlinear Devices and Systems	
Committee Member	LEOS Board of Governors Long Range	2006 - 2007
	Strategic Planning for Publications	
Subcommittee Chair	IEEE/LEOS Semiconductor Laser Workshop	2006
Co-Organizer	International Workshop on the Future of Optical Networking	2006
TPC Member	SIGCOMM	2006
Workshop Organizer	National Science Foundation (NSF) Workshop on Optical	2005
1 0	Networking and Communications, UCSB	
TPC Member	European Conference on Optical Communications (ECOC)	2004 - 2005
TPC Member	LEOS Annual Meeting	2005
Executive Committee	CoRE UC Discovery	2004 - 2005
TPC Member	4 th International Workshop on Optical Burst Switching	2005
Guest Editor	IEEE Journal on Selected Areas in Quantum Electronics	2005
TPC Member	IQEC/CLEO Pacific Rim	2005
TPC Member	3 rd International Workshop on Optical Burst Switching	2004
TPC Member	IASTED International Conference on Optical	2004
	Communications Systems and Networks (OCSN)	
Guest Editor	IEEE Journal on Selected Areas in Communications (JSAC)	2002
	Special Issues on Optoelectonic and Optical Routers	
General Co-Chair	LEOS Topical Meeting on Advance Semiconductor	2001
-	Lasers and their Applications (ASLA)	
TPC Member	Hot Interconnects VIII	2001
General Conference Chair	OSA Topical Meeting on Photonics in Switching	2001
TPC Member	Opticom 2000	2000
General Chair	Optical Summit, Sante Fe, NM	2000
Program Committee Chair	OSA Top. Mtg. on Photonics in Switching	1999
Program Committee Chair	Optical Internetworking Conference	1999
Workshop Organizer	OFC Workshop on Optical Signal Processing	2000
	for Optical Networks	
TPC Member	Conference on Lasers and Electrooptics (CLEO) North America	i 1999-2001
TPC Member	IEEE/LEOS Topical Meeting on WDM Component Technologic	
TPC Member	IEEE/LEOS Topical Meeting on Optical	1994
	Networks and their Enabling Technologies	
Chair	Atlanta Chapter of the LEOS/ED Society	1995-1997
Secretary	Atlanta Chapter of the LEOS Society	1994-1995
North American	IEEE/COMSOC Coord. Committee for OFC	1993
Representative		
Subcommittee Chair	S2, Optical Fiber Communications OFC 2019, San Diego, CA	2021
Steering Committee	WOMBAT International Meeting on Interactions	2019-2020
	Between Light and Sound	
Evaluator	IEEE Photonics Society Fellow Evaluating Committee	2020
Traveling Faculty Lecturer	Optical Society of America (OSA)	2019-present
Committee Member	Optical Society of America (OSA)	2018-2019
a	Corning Women in Optical Communication Scholarship	2010 2021
Committee Member	National Academy of Inventors (NAI)	2018 - 2021
	Fellow Advisory Committee	2010
Committee Member	National Academy of Inventors (NAI)	2019
TDC M 1	Senior Member Advisory Committee (SMAC)	2010 2020
TPC Member	Optical Fiber Communications OFC 1997-20	000, 2018-2020



DOCKET A L A R M

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