

Henry Daniel Young

Assistant Professor

Date of Initial Appointment: September 1, 2003 (2 years of service)

Education

| Institution | Field of Study | Degree/Date |
|------------------------|-----------------------------------|-------------|
| University of Maryland | Materials Science and Engineering | Ph.D., 1999 |
| University of Maryland | Materials Science and Engineering | M.S., 1997 |
| University of Illinois | Engineering Physics | B.S., 1993 |

Professional Experience

| Position | Institution | Dates |
|-----------------------------|--|---------------|
| Assistant Professor | Wright State University, Mech. & Mat. Eng. | 09/03-Present |
| NRC Postdoctoral Associate | Naval Research Laboratories (NRL) | 07/00-09/03 |
| Contractor, SFA Inc. | Naval Research Laboratories (NRL) | 03/00-07/00 |
| Faculty Research Associate | Army Research Laboratories (ARL) | 05/99-03/00 |
| Graduate Research Assistant | University of Maryland | 08/93-04/99 |
| Summer Engineering Intern | EC Technologies, Plainfield IL | 06/93-08/93 |
| Summer Engineering Intern | EC Technologies, Plainfield IL | 06/92-08/92 |

Principal Publications (Last 5 Years)

1. J. Barrons, D. Young, B. R. Ringeisen, D. D. Dlott, D. Krizman, M. Darfler, 2005, "Protein Printing via a Capillary-Free Fluid Jetting Mechanism" Accepted, *Proteomics*.
2. D. Young, R. C. Y. Auyeung, A. Piqué, D. B. Chrisey, D. D. Dlott, 2002, "Plume and Jetting Regimes in a Laser Based Forward Transfer Process as Observed by Time-Resolved Optical Microscopy," *Applied Surface Science* 197, 181-187.
3. B. R. Ringeisen, D. B. Chrisey, A. Pique, D. Young, R. Modi, M. Bucaro, J. Jones-Meehan, B. J. Spargo, 2002, "Generation of Mesoscopic Patterns of Viable *Escherichia Coli* by Ambient Laser Transfer," *Biomaterials* 23, 161-166.
4. D. Young, B. R. Ringeisen, P. K. Wu, H. S. Kim, B. Spargo, A. Pique, R. C. Y. Auyeung, D. B. Chrisey, D. B. Krizman, 2002, "Cell-by-Cell Construction of Living Tissue," *SPIE Photonics West, LAMOM 4637A-46*.
5. D. Young, R. C. Y. Auyeung, A. Pique, D. B. Chrisey, D. D. Dlott, 2002, "Laser Forward Transfer of Fluids," *SPIE Photonics West, LAMOM, 4637A-81*.
6. D. Young, R. C. Y. Auyeung, A. Piqué, D. B. Chrisey, 2001, "Time Resolved Optical Microscopy of a Laser-Based Forward Transfer Process," *Appl. Phys. Lett.*, 78, 3139-3171.
7. D. Young, H. D. Wu, R. C. Y. Auyeung, R. Modi, J. Fitz-Gerald, A. Pique, D. B. Chrisey, P. Atanassova, T. Kostas, 2001, "Dielectric Properties of Oxide Structures by a Laser-Based Direct Writing Method," *J. Mater. Res.*, 16, 1720-1725.
8. D. Young, H.D. Wu, R. Modi, H. Denham, A. Pique, D.B. Chrisey, 2001, "Laser-Direct Writing of Conductor and Dielectric Multilayers for Storage Capacitor Applications," *Materials Research Society Fall Meeting*, Q3.5.
9. D. Young, R. C. Y. Auyeung, H. Denham, A. Pique, D. B. Chrisey, 2001, "Ultra High-Speed Imaging of a Laser Forward Transfer Process Using a Colloidal Ink Layer," *Materials Research Society Fall Meeting*, Q3.9.
10. D. B. Chrisey, A. Pique, R. Modi, H. D. Wu, R. C. Y. Auyeung, D. Young, R. Chung, 2000, "Direct Writing of Conformal Mesoscopic Electronic Devices by MAPLE-DW," *Applied Surface Science* 168, 345-352.
11. D. Young, R. C. Y. Auyeung, A. Piqué, D. B. Chrisey, D. D. Dlott, 2001, "Dynamics of Plume Generation in a Laser Forward Transfer Process," *Conference on Laser Ablation '01*, October 1-5, Tsukuba, Japan.
12. B. Ringeisen, D. B. Chrisey, A. Pique, D. Young, R. Modi, B.H. Thompson, R. Chung, 2001, "Direct Writing of Passive and Active Circuits and Coatings on Insects," *Darpa Insect Tracking Workshop*, August 2-3, Southwest Research Institute, Bldg 160, 6220 Culebra Rd., San Antonio, TX, 78238-5166.

Professional Memberships

- 1) Materials Research Society, 1998-Present. 2) ASM/TMS, 2004-Present.

Honors and Awards (Since Joining WSU)

<none>

Institutional and Professional Service (Last 5 years)

Department Committees: ABET A-K Committee, Winter 04-Present, Materials Committee Fall 04-Present.

College Committees: Scholarship Committee, Spring 04-Present.

University Committees: <none>

Reviewer for Professional Journals: IEEE Transactions on Device and Materials Reliability.

Other Professional Service: Faculty Advisor, Wright State University ASM/TMS Joint Student Chapter, Spring 2004-Present. Proposal reviewer for Kentucky Science and Engineering Foundation, 2005. Proposal reviewer for Missile Defense Agency, 2004.

Professional Development Activities (Last 5 years)

2004 ASEE Annual Conference and Exposition, Panel discussions attended: ABET evaluation procedures, writing NSF proposals. Wright State University New Faculty Orientation 2004.