Vita for the proposal

1. Employment in the last 20 years

- Research Professor, MSU-Billings, 2003-present.
- Full Professor, UCI Irvine, 1974–2003.
- Visiting Professor University of Florida, Spring 2003.
- Visiting Professor, Institut of Experimental Math., Essen, Germany, Spring-Fall 1995, senior Research Alexander von Humboldt Fellow.
- Visiting Professor, Erlangen Univ., Fall 1994, senior Research Alexander von Humboldt Fellow.
- Member, Institute for Advanced Studies, Hebrew University, Jerusalem, Israel, September 1991–June 1992.
- Visiting Full Professor, Hebrew University, Fall 1988.
- Professor, University of Florida, July 1986–Fall 1989.
- Lady Davis Research Professorship, Hebrew University in Jerusalem, September 1984–January 1985.

2. Explanation of move from UC Irvine to MSU-Billings

My wife's daughter and son-in-law are farmers in northern Montana. They come with three grand children. He (Doug) was diagnosed with Leukemia five years ago. We bought a house in Montana to help, including by being close to medical facilities. While he remained in remission during a first period, recent recurring episodes hinted it was time to make that move. The only way to do that was to retire from UCI.

At MSU-Billings, I continue my research and run a "Continuous Assessment Office" based on software I wrote under grants from Sloan Foundation and NSF in the late 90's. I'll write proposals this year to use the technology here in Montana.

3. Recent Editorships and Organizing Committees

- Finite Fields and their Applications, Ed. for Acad. Press, 1994–2009.
- AMS, Chair, Committee on Summer Institutes and Special Symposium, June, 1996 to June, 1999, June 2003 to June, 2007.
- Chair: AMS Summer Institute in Finite Fields, Seattle conference, July 15–22, 1997.
- Organizing committee for MSRI semester, The Inverse Galois Problem and Arithmetic Fundamental Groups, Spring 1999. Jan. 2002.
- AMS, Committee on Summer Institutes and Special Symposium, March, 1996 to Feb. 1, 1999.
- AMS-IMS-SIAM Committee on Joint Summer research conferences, July 1, 2003 to June 30, 2007.
- Organizing Committee (with Pierre Debes and Ken Ribet) of the "Profinite Arithmetic Geometry," conference April 3–7, Red Lodge Montana; and the RIMS, Kyoto conference Oct. 23–32, "Arithmetic Algebraic Geometry and Profinite Geometry."

4. Publications during the period of this proposal

4.1. Five publications related to this conference proposal.

- P. Bailey and M. D. Fried, *Hurwitz monodromy, spin separation and higher levels of a Modular Tower*, in Proceed. of Symposia in Pure Math. **70** (2002) editors M. Fried and Y. Ihara, 1999 von Neumann Symposium, August 16-27, 1999 MSRI, 79–221.
- M. Fried, *Moduli of relatively nilpotent extensions*, Institute of Mathematical Science Analysis 1267, June 2002, Communications in Arithmetic Fundamental Groups, 70–94.
- M. D. Fried, *Relating two genus 0 problems of John Thompson*, Vol. for John Thompson's 70th birthday, in Progress in Galois Theory, H. Voelklein and T. Shaska eds 2005 Springer Science, 51–85.
- M. D. Fried, *The Main Conjecture of Modular Towers and its higher rank generalization*, to appear in proceedings of Luminy, March 2004, Seminaires et Congres, 46 pgs, Vol. **13**, 2006, 165–230.
- M. D. Fried, Alternating groups and lifting invariants, to appear in IMRN, available at www.math.uci.edu/~mfried/talkfiles/#mt.

4.2. Five publications not directly related to this proposal.

- W. Aitken, M. Fried and L. Holt, *Davenport Pairs over finite fields*, PJM **216**, No. 1 (2004), 1–38.
- M. Fried, Prelude: Arithmetic fundamental groups and noncommutative algebra, in Proceed. of Symposia in Pure Math. **70** (2002) editors M. Fried and Y. Ihara, 353–376, vii–xxx.
- M. Fried and A. Mézard, Configuration spaces for wildly ramified covers, in Proceed. of Symposia in Pure Math. 70 (2002) editors M. Fried and Y. Ihara, 353–376.
- M. Fried and M. Jarden, *Field arithmetic*, Ergeb. der Math. III, **11**, Springer Verlag, Heidelberg, 2005 (new ed.) ISBN 3-540-22811-x.
- M. D. Fried, The place of exceptional covers among all diophantine relations, J. FFields **11** (2005) 367–433.

Undergraduate Institution

Mich. State Univ., 1959–1961, Electrical Eng. degree from the Honors College.

5. Other relevant data

- Graduate Advisor and recent collaborators: Graduate Advisor: Donald Lewis at University of Michigan, algebraic number theory and diophantine approximation.
- **Postdoctorals**: Institute for Advanced Study, 1967–1969. Also, MIT and the Institute for Advanced Study (1972–74) under Alfred P. Sloan Foundation Fellowship, Lady Davis Fellowship (Hebrew Univ., 1989), Alexander von Humboldt Senior Research Fellow ('94–'96).
- Recent Collaborators: PaulBailey, MosheJarden, DarrenSemmen.