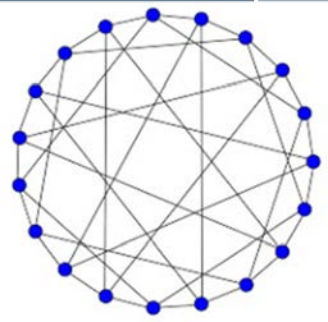
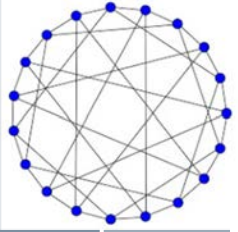


G. Neil Robertson's 80th Birthday

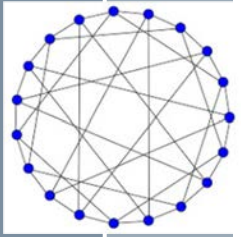
Robertson
Graph Theory





The Robertson Family





G. Neil Robertson

Born November 30, 1938

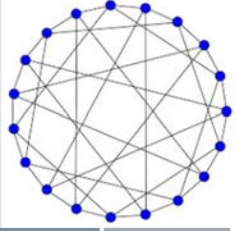


**B.Sc. Brandon College
(Manitoba) – 1959**



Ph.D. U. Waterloo under Bill Tutte - 1969

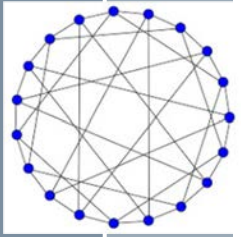
Professor at Ohio State since 1969



G. Neil Robertson

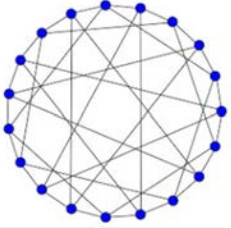


1964 Conference at Waterloo
Dijen Ray-Chaudhuri, Neil, Bill Tutte, Dan Younger,



The Robertson Family





University of Waterloo Faculty of Mathematics Alumni Achievement Medal

2002

Neil Robertson (PhD 1969, Mathematics)

Faculty member in the Department of Mathematics at Ohio State University (Columbus).

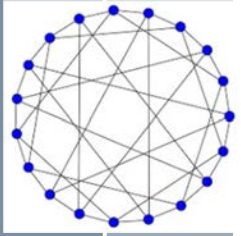
Winner for his academic accomplishments, particularly his pioneering work in graph theory and his profound influence in the area of combinatorics.



2012

Member of the Inaugural Class of
Fellows of the American Mathematical Society





THE OHIO STATE UNIVERSITY

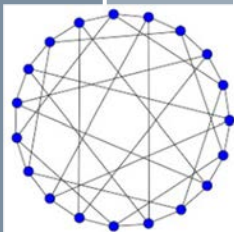
1997

Ohio State University Distinguished Scholar Award

2003

Ohio State University

Distinguished Professor of the College of
Mathematical and Physical Sciences



Graph Minors.

LXIV. Obstructions to Distinguished Scholarship

*Neil Robertson **

*Department of Mathematics, The Ohio State University
231 West 18th Avenue, Columbus, Ohio 43210*

and

P.D. Seymour

*Department of Mathematics, Princeton University
Princeton, New Jersey 08540*

Received November 30, 2003

Let G be a graph. The *scholarship* of a graph is a complicated function of such properties of the graph as its paper-width and respectativity. This paper will prove that the unique graph with distinguished scholarship is the Robertson graph. Included as a corollary is a structure theorem for all graphs with no Robertson minor.

These results will be of use in the next 14 papers.

1. INTRODUCTION

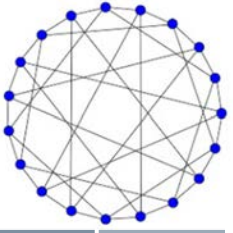
All graphs in this paper are people who are undirected and may have loop-the-loops or multiple personalities. Let the Robertson graph be the unique 7-connected trivalent graph.

In order to characterize the obstructions to distinguished scholarship, a useful concept must first be defined. A *snarl* is a tangled maze which satisfies the snarl axioms, defined in the next section. The main result of the paper is the following:

- (1.1) Every snarless graph with no Robertson minor can be constructed by clock-summing graphs which embellish the torus.

Spool: We proceed by induction on φ , the number of folders on Robertson's desk. Obviously, the case of $\varphi \leq 100$ is absurd, so we may assume that the respectativity

* Research fully supported by the Maharry-Sanders Foundation for Parodical Graph Theory, grant number MSF 14-5-9-12, CCASWVOCRZZDM



Delbert Ray Fulkerson Prize

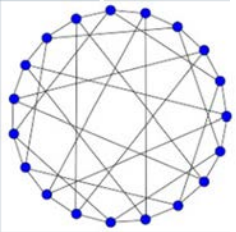


- 1994 Neil Robertson, Paul D. Seymour, and Robin Thomas,** "Hadwiger's conjecture for K_6 -free graphs", *Combinatorica* 13 (1993), 279-361.
- 2006 Neil Robertson, Paul D. Seymour,** "Graph Minors XX. Wagner's conjecture", *Journal of Combinatorial Theory Series B* 92, No 2, (2004), Pages 325-357.
- 2009 M. Chudnovsky, N. Robertson, P. Seymour, and R. Thomas,** "The strong perfect graph theorem," *Annals of Mathematics*, 164 (2006) 51-229

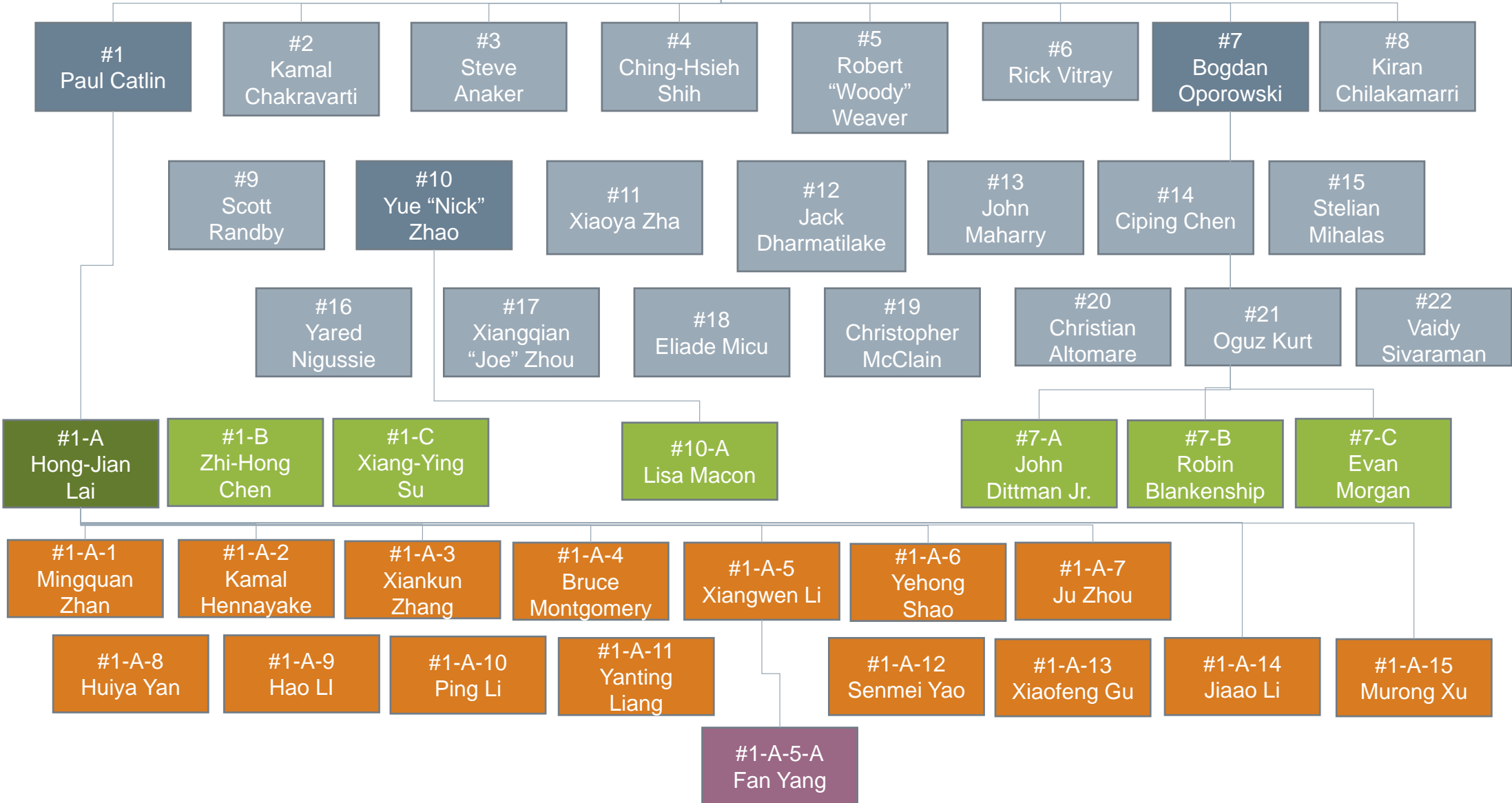
George Pólya Prize

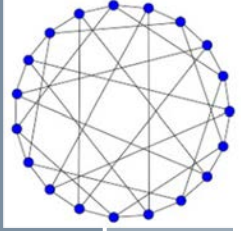
2004 Neil Robertson, Paul D. Seymour





Neil Robertson





In Memoriam

Paul Catlin (1948-1995)

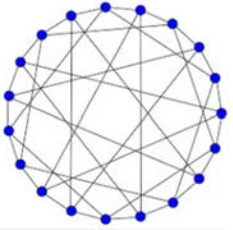
*Embedding subgraphs and coloring graphs
under extremal degree conditions (1976)*

Kiran Chilakamarri (1953-2015)

*Unit-Distance Graphs In
Euclidean Spaces (1990)*

Jack Dharmatilake (1953-1994)

*Binary Matrices of Branch
Width 3 (1994)*



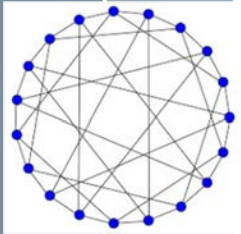
Neil and Bojan

Bled Conference 1999



Somewhere in the 1990's

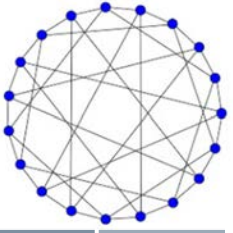
Proof of the Hadwiger Conjecture for $k=5$



Neil, Gisele and Robin

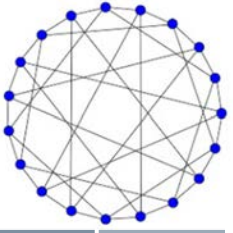
1998





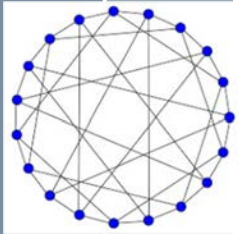
Oberwolfach Conference 1999





65th Birthday Conference 2003

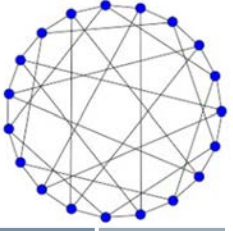




65th Birthday Conference 2003

Robin Thomas,
Neil and
Yared Nigussie





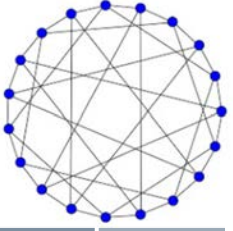
65th Birthday Conference 2003



Neil, Zi-xia Song, Guoli Ding, Paul Wollan,
and the back of Xiaoya Zha's head



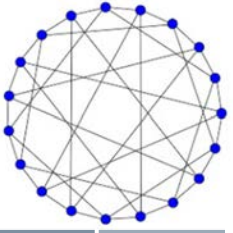
Tom Zaslavsky and Tom Dowling



Neil at ICM in Korea 2014

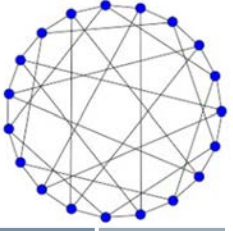
With Chris McClain, Sophie Burrill, Matt DeVos, Sang-il Oum, and O-joung Kwon.





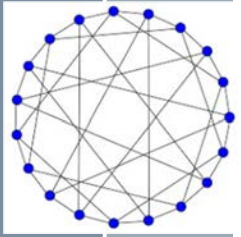
MIGHTY LVII at Wright State 2016





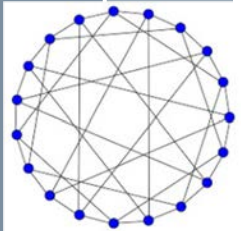
Bogdan Oporowski and Neil



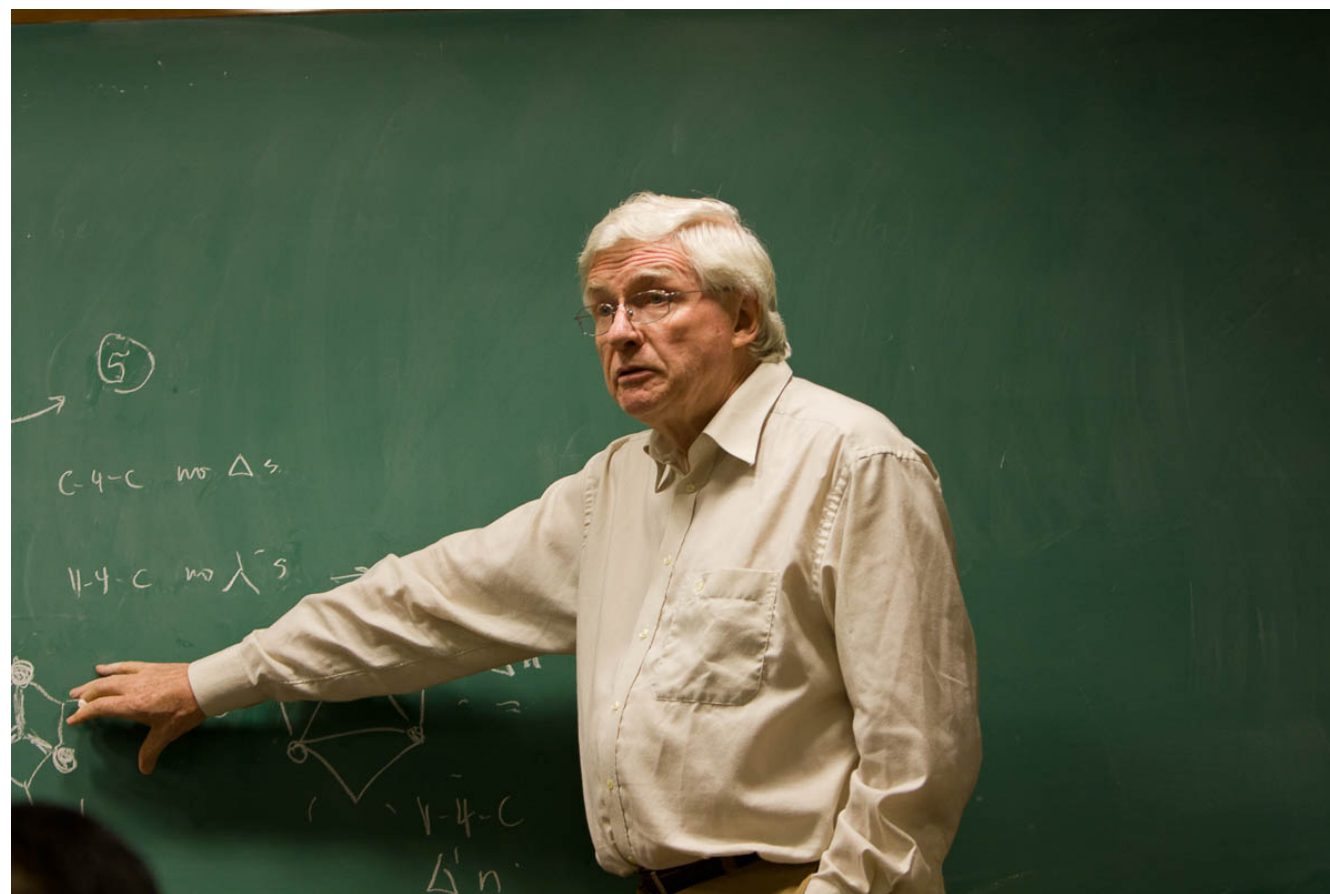


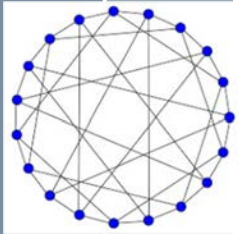
Gisele and Neil (and James Oxley)





Dan Cranston and Neil





Dan Cranston and Neil

