THE UNIVERSITY OF BRITISH COLUMBIA
Curriculum Vitae for Faculty Members

Date : June 20, 2008

Please initial: ____

1. **SURNAME:** Gladman **FIRST NAME:** Brett
   MIDDLE NAME(s): James
2. **DEPARTMENT:** Physics & Astronomy
3. **FACULTY:** Science
4. **PRESENT RANK:** Associate Professor **SINCE:** May 1/2002

5. POST-SECONDARY EDUCATION

University or Institution	Degree	Subject Area	Dates
University of Alberta	B.Sc.(Hon)	Physics	Sep 1984–Apr 1988
Queen's University	M.Sc.	Physics&Astronomy	Sep 1988–Aug 1990
Cornell University	M.S.	Astronomy/T&A.M.	Sep 1991–Aug 1994
Cornell University	Ph.D.	Astronomy	Sep 1994–Jul 1996

Special Professional Qualifications

6. EMPLOYMENT RECORD

(a) Prior to coming to UBC

University, Company, or Organization	Rank or Title	Dates
Centre National de la Recherche Scientific (CNRS), Nice France	Research Scientist, 1st Class	Oct 1999 – April 2002
Observatoire de la Côte d'Azur, Nice, France	Chateaubriand international fellow	Sep 1998 – Sep 1999
Canadian Institute for Theoretical Astrophysics	Research Associate	Sep 1997-Aug 1998
Observatoire de la Côte d'Azur, Nice, France	Henri Poincaré fellow	Sep 1996–Aug 1997

(b) at UBC

Rank or Title	Dates
Associate Professor, Tier II Canada Research Chair	May 1/2002 – present
Associate member, Earth and Ocean Sciences Dept.	2004 – present

(c) Date of granting of tenure at U.B.C. : July 1, 2003.

7. LEAVES OF ABSENCE

None from UBC.

8. TEACHING

(a) Areas of special interest and accomplishments

I am helping to create an inter-disciplinary program in Planetary Sciences at UBC. I have made bridges with EOS for both research *and* teaching, having implemeted ASTR 507A which has been co-taught with members of the EOS department and has had students from degreee programs in physics, astronomy, and geological sciences. I have created a graduate course in astronomical dynamics (now numbered AST 502). I have taught the large ASTR 101 course five times.

(b) Courses taught at UBC [*for last 5 years*]

Session	Course Number	Scheduled lecture hours per week	Class Size	Hours Taught			
				Lectures	Tutorials	Labs	Other (Office hours)
wint 07	ASTR 507	3	5	36	0	0	13
spring 07	ASTR 502	3	10	36	12	0	10
06/07	ASTR 449	VanLaerhoven	1	0	0	0	1
06/07	ASTR 520	1.5	4	0	0	0	36
wint 06	ASTR 101	3	151	36	0	24	36
05/06	PHYS 449	Chan	1	0	0	0	1
05/06	ASTR 520	1.5	5	0	0	0	36
wint 05	ASTR 101	3	149	36	0	24	36
spring 05	ASTR 507	3	8	24	0	0	10
04/05	ASTR 530	1.5	6	36	0	0	0
wint 04	ASTR 101	3	152	36	0	24	36
03/04	ASTR 530	1.5	2	0	0	0	36
spring 04	ASTR 502	3	8	36	0	0	13
03/04	ASTR 449	Nadal	1	0	0	0	1
wint 03	ASTR 101	3	176	36	0	24	36
02/03	ASTR 530	1.5	3	0	0	0	36
02/03	ASTR 449	Warrington	1	0	0	0	1
wint 02	ASTR 101	3	216	36	0	24	36

(c) Graduate Students Supervised (Supervisory committees listed Sec. 10a)

Student Name	Program Type	Year Start	Year Finish	Principal Supervisor	Co-Supervisor(s)
Jaime Coffey	M.Sc.	2006	active	B. Gladman	–
John Gallant	M.Sc.	2004	2006	B. Gladman	–
Thomas Lowe	M.Sc.	2004	DNF	B. Gladman	Did not finish
Anna Tomas	DEA	2001	2001	T. Guillot	B. Gladman

J. Gallant now teaching Physics and Astronomy at U. PEI.

(d) Continuing Education Activities

Edited ‘Did life on Earth come from Mars?’ Jan 2008 for Discover magazine.
Universe episode ”Alien Moons” airs in North America. Jan 8 and 9/2008.
Filmed feature interview for History Channel’s ”Universe” series. Sept 2007
Editor for 5 Quirks and Quarks pieces, June 4 2007
CBC News interview: The Cassini spacecraft mission, May 2007
CBC Quirks & Quarks segment, Nov. 4/06
Live 25-min CHQR/CHED radio interview: ”Definition of a planet”, Aug 24/06
Globe and Mail interview: ”Definition of a planet”, Aug 24/06
Live 10-min Global TV interview: ”Definition of a planet”, Aug 17/06
Interview with Discovery Channel Radio for show ”How Life Began”, July 14/06
Public lecture to Royal Astronomical Society, June 8, 2006
Interview with CBC (Geneviève Bélander) on definition of ’planet’. Mar. 24/06
Interview on panspermia with ’Science and Theology Magazine’. April 7, 2006
Mentorship host for 2 elemenatry school students. March 1, 2006
Origin of Life interview for Canada-wide planetarium show. Sept. 30, 2005
Open house night at Vancouver MacMillan Space Center. Oct. 6, 2005
CBC Radio (Bunny Watson, ”Exploring Tangents”). March 19 and 20, 2005
Open house night at Vancouver MacMillan Space Center. Sept. 30 2004
Carnarvon elementary school visit, June 2004
CBC Radio (Les années lumieres); 15-minute air time interview, April 2004
Open house night at Vancouver MacMillan Space Center Oct 8, 2003
Celebrity Enrichment Series Lecturer, August 11-15 2003
CBC Quirks & Quarks appearance, June 2003
Public lecture to Vancouver Royal Astronomical Society, June 2003
20-minute television interview with Discovery Channel, January 2003
Open house night at Vancouver MacMillan Space Center September 25, 2002
Astrobiology lecture at UBC Summer Science camp August 2002
‘Open domes’ night at Calern Observatory, France May 2001
Gifted high-school program, Univ. of Toronto, Feb. 1998
Astronomy open house at Univ. of Toronto, spring 1998
Public outreach visits for grades 4–8, NASA Space Grant program, 1994-1996
Annual astronomy open houses, Cornell University. 1994-1996

(e) Visiting Lecturer (indicate university/organization and dates)

2005 Whistler summer school in planetary science. June 5-11, 2005.
Les Houches winter school in Solar System Formation, Feb. 2001.
Les Arcs winter school in Gravitational Dynamics, Mar. 1997.

(f) Other : In undergraduate teaching I strive to provide students with perspective of humanity’s place in the universe, a sense of wonder of the variety of Nature, and a knowledge that the world is comprehensible. In graduate teaching I challange students with problems that require synthesis of concepts rather than just teaching them a ‘toolkit’.

9. SCHOLARLY AND PROFESSIONAL ACTIVITIES

(a) Areas of special interest and accomplishments

My research centers around the formation and evolution of planetary systems with strong emphasis on our Solar System. My background is in physics, non-linear mechanics, and astronomical dynamics, but I am also involved in observational and multi-disciplinary research (astronomy, geophysics, cosmochemistry, meteoritics, astrobiology). Current major areas of enquiry include: observations of Kuiper Belt comets and irregular satellites of the giant planets, numerical studies of the dynamical evolution of the Solar System, and studies of meteorite transport (and potentially bacterial life) between planets. Major accomplishments include the discovery of many new planetary satellites, hundreds of new comets in the Kuiper Belt, and the first direct numerical simulations of the dynamical evolution of asteroids and meteoroids in the inner solar system on their natural time scales; in these areas my contribution has been extremely important in the field or even started the field (in its modern sense).

(b) Research or equivalent grants [*for last 10 years*]

(indicate under COMP whether grants were obtained competitively (**C**) or non-competitively (**NC**)

Granting Agency	**Subject**	COMP	**$ per year**	**Years**	**Principal Investigator**	Co-Investigators
NSERC Discovery	“Solar System formation studies”	C	$58 k	2007–2012	B. Gladman	–
French Embassy	Collaborational Support	C	$2k	2006	B. Gladman	J-M. Petit
PWIAS	Exploratory workshop in planetary science	C	$15k	2005	B. Gladman	Weis, Scoates Hearn (EOS)
CSA	Whistler Workshop in planetary science	C	$9375	2005	B. Gladman	
NASA Plan.Ast.	“Dynamical structure of Kuiper Belt”	C	34k US	2004–2007	J. Parker	B. Gladman, et al.
NSERC Discovery	“Solar System formation studies”	C	$50 k	2002–2006	B. Gladman	–
CFI CRC-funds	“Computing infrastructure for Solar System studies...”	C	624 k total	2002–2004	B. Gladman	UBC astro faculty, national dynamicists
NASA Exobiology	“Transfer of terrestrial material between planets”	C	27k US	2001–2003	L. Dones	B. Gladman, H. Levison et al.
NASA Plan.Ast.	“Next generation asteroid surveys...”	C	34k US	2001–2003	D. Davis	B. Gladman, et al.

(b) Research grants, continued [*for last 10 years*]

(indicate under COMP whether grants were obtained competitively (**C**) or non-competitively (**NC**)

Granting Agency	**Subject**	COMP	**$ per year**	**Years**	**Principal Investigator**	Co-Investigators
NASA Plan.Ast.	"Irregular satellite sytems of the giant planets"	C	54k US	2001–2003	P. Nicholson	B. Gladman J. Burns, et al.
PNP (France)	"Surface chronology of terrestrial planets"	C	3300	2000	B. Gladman	F. Albarede J. B.-Toft
Research Ministry (France)	"Origin of the outer solar system"	C	161k total	2000–2002	B. Gladman	J-M. Petit A. Morbidelli T. Guillot
NASA Origins	"Origin of the outer solar system"	C	15k US	1999–2001	M. Holman B. Gladman	J. Kavelaars J-M. Petit
American Astronom. Society (AAS)	Henri Chretien International Collaborational grants. "Kuiper Belt structure"	C	10k US	1998	Gladman	J. Kavelaars M. Holman
AAS	Small Grants "Wide-Field Kuiper search from CFHT"	C	2500US	1997	Gladman	J. Kavelaars

(c) Research or equivalent contracts [*for last 10 years*]

Granting Agency	**Subject**	**COMP**	**$ per year**	**Years**	**Principal Investigator**	**Co-Investigator(s)**

(d) Invited Presentations

Invited Symposia Lectures

- *Resonant Kuiper Belt objects.* Division of Dynamical Astronomy meeting, Boulder, CO, Apr. 29/2008.
- *Origin and Evolution of Phobos and Deimos.* First international conference on the exploration of Phobos and Deimos, NASA Ames, Nov 5-7, 2007.
- *Planets that trade rocks.* From Dust to Planets symposium. Cornell University, Jul 28/06.
- *Exploring the Solar System with High Performance Computing.* BC Netera/Westgrid conference, Vancouver, April 25, 2006.
- *The CFHLS: First results.* Italian TNO meeting. Catania, Italy, July 2006 (declined due to conflict with observing).
- *Irregular satellites.* Division of Dynamical Astronomy's 2005 Annual meeting. Santa Barbara April 2005. (declined due to conflict with observing).
- *Opening Pandora's box; the discovery of new irregular satellites of the giant planets.* 2002 Urey Prize Lecture, Division of Planetary Science, Birmigham, AL, USA. October 2002.
- *Meteorite parent bodies: Clues from dynamics and cosmochemistry.* 1999 ACM meeting.
- *Dynamical Interrelations between meteorites, NEAs, comets and asteroids.* 1998 European Geophysical Society invited review. April 1998.
- *The delivery of martian and lunar meteorites to Earth.* 1996 DPS/AAS meeting invited review. October 1996.

Invited Lectures

- *Earth sneezed.* Astrobiology Institute colloquium, Univ. of Washington, April 18, 2007.
- *The lunar cataclysm.* Dept. colloquium, Univ. of Western Ontario, March 8, 2007.
- *Non-homogenous lunar cratering.* Planetary seminar, UCLA, Jan 26, 2006.
- *Bias in Kuiper Belt surveys.* Observatire de Paris-Meudon, France, Jan 24, 2006.
- *The future of Kuiper Belt research.* Institute for Astrophysics, Naples, Italy, Jan 16, 2006.
- *De-biasing the Kuiper Belt orbital distribution.* S.W. Research Institute, USA, Dec 8/05.
- *Puzzles in Planetary Science.* Peter Wall Institute for Advanced Research, Sep. 14, 2005.
- *The near-Earth object population and the impact hazard,* International Space University Theme Day on NEOs. July 26, 2005.
- *Impact re-seeding of Earth's early biosphere.* Astrobiology conference, McMaster University's Origins Institute. May 25, 2005.
- *A rogue planet scenario for the creation of the extended scattered disk.* Aspen conference on Planet Detection and Formation. Feb. 2005.
- *Symplectic integration algorithms for solar system dynamics applications.* Institute for Applied Mathematics, UBC. January 25 2005.
- *Meteorite delivery in the Solar System.* MIAC annual Meeting. November, 2004.
- *Swapping Rocks: The transfer of meteorites between the terrestrial planets.* Earth and Ocean Sciences Dept., UBC. Sept 2004.
- *Cassini states of planetary satellites.* UBC Theory seminar. UBC, April. 2004.
- *The irregular satellites of the giant planets.* Dept. of Astronomy, Berkeley. April 2003.

- *The Kuiper Belt and the formation of the Outer Solar System.* Dept. of Astrophysical Sciences, Princeton. April 2002.
- *Meteorite delivery from the main belt.* Carnegie Insitutions, Washington D.C. Nov. 1999.
- *Planetary satellite rotational dynamics.* Nonlinear studies institute, U. Toronto, Feb. 1998
- *Meteorite delivery from the main belt.* Harold Urey Commemorative Lecture, U.C. San Diego, USA. Sept. 1997.

(e) Other Presentations

- *The Trouble with 'Planets'*, UBC astronomy colloquium 2006.
- *Cores and Conundrums*, UBC physics colloquium 2004.
- *The formation of the outer Solar System*, given as a UBC Science One lecture (March 2004) and UBC PhySoc lecture (April 2004).
- *The formation of the outer Solar System.* Lecture tour at Queen's, U of Toronto, McMaster University, Univ. of Western Ontario, in February 2003.
- *Transport of meteorites between planets*, lecture to PHAS Staff, 2003.

⇒ **See also :** conference abstracts in publications section 2b.

(f) Other (list PDFs, RAs, Visitors - including dates)

<u>Postdoctoral Fellows</u>

Matija Ćuk : CITA National Fellow at UBC Sep. 2006–August 2008.
Matija Ćuk : postdoctoral fellow at UBC Jan. 2005–August 2006.
Rhiannon Lynne Allen : NSF International PDF at UBC Aug. 2002–Aug. 2005.
Maria Helena Morias : PDF at Observatoire de Nice Jan. 2001-Apr. 2002.

<u>Research Associates</u>

Gilbert Mars : Senior R.A. at Observatoire de Nice Sept. 2001-Aug. 2002.
Adam Pauls : NSERC USRA, UBC summer 2003
Christa Van Laerhoven : NSERC USRA, UBC summer 2004
Collin Chan : NSERC USRA, UBC summer 2004
Samantha Leung : research assistant, UBC summer 2005
Christa Van Laerhoven : research assistant, UBC summer 2006
Simon Cripps : undergraduate assistant, Sept 2006 - present
Paul Smith : undergraduate assistant, Sept 2006 - present

<u>Visitors</u>

Paula Benavidez, Univ. of Alicante, Sep 10 – Oct 30, 2003
Jean-Marc Petit, Observatoire de Besançon, July 6–Aug 21, 2004
Philip Nicholson, Cornell University, Nov. 27–Dec 3, 2004
Martin Duncan, Queens University, Oct. 21–Oct. 23, 2005
Robert Hawkes, Mount Allison University, Jan. 15–Feb. 27, 2007

Martin Duncan, Queens University, May 16–June 2, 2007
Jean-Marc Petit, Observatoire de Besançon, Aug 2007-Aug 2008

(g) Conference Participation (Organizer, Keynote Speaker, etc.)

Organizer : Canadian Space Astronomy Workshop, CSA, Montreal, Nov 23–24, 2006
Organizer : Summer school in Planetary Science, Whistler BC, June 5–12, 2005
Organizer : PWIAS Exploratory Workshop in Planetary Science, June 2-4, 2005
Organizer : Annual Division of Planetary Sciences Meeting, Whistler Oct. 2009
Scientific Organizing Committee : Canadian Space Agency 2006 Space Astronomy Workshop

10. SERVICE TO THE UNIVERSITY

(a) Memberships on committees, including offices held and dates

Departmental

- Chair of sub-committee for planetary science position (2005, 2006, 2007)
- Member of sub-committee for computational physics position (2005)
- Departmental merit committee (2005)
- Committee for Promotion/Review/Tenure (2003, 2004, 2005, 2007)
- Member of tenure review committee for I. Stairs (2006)
- PHAS computing committee (2005–present)
- Computing Roadmap committee (2005)
- Grad Admissions committee (fall 2003–summer 2004).
- Astronomy Group Computing committee (summer 2002–present).
- Physics Computing committee (fall 2003–summer 2004).

Phd Supervisory committee for Thomas Pfrommer (2006 – present).
Phd Supervisory committee for Chris Cameron (2006 – present).
Phd Supervisory committee for Saul Davis (2006 – present).

University

- UBC High-Performance computing space issues (May 2007 - present)

(b) Other service, including dates

Chair of university defense committee, C. Dutchyn (Computer Science), Nov. 2 2006.
PhD thesis university defense committee, Anna Sajina (Astronomy), Oct 10 2005.
PhD thesis university defense committee, Jason Kaleri (Astronomy), Sep 23 2004
PhD thesis university defense committee, Colin Borys (Astronomy), Oct 4 2002.
Chair of university defense committee, C. Daub (Chemistry), November 18 2004.
Moderator, UBC Multidisciplinary Research Conference, Saturday March 6, 2004.

Moderator, UBC Multidisciplinary Research Conference, Saturday March 5, 2005.

11. SERVICE TO THE COMMUNITY

(a) Memberships on scholarly societies, including offices held and dates

- Division of Planetary Sciences, American Astronomical Society, 1990–present.
- Meteoritical Society, 1996–present.
- Canadian Astronomical Society, 2002–present.

(b) Memberships on other societies, including offices held and dates

(c) Memberships on scholarly committees, including offices held and dates

- Member, Science Advisory Council, Canada-France-Hawaii Telescope 2008-2010
- Member, Canadian Space Agency discipline working group on small bodies, 2007-2009
- Member, Optical and Infared committee, Canadian Astronomical Society, 2006-2007
- Member, Planetary and Solar System Sciences committee, Canadian Astronomical Society, 2004-2005
- Chair, Planetary and Solar System Sciences committee, Canadian Astronomical Society, 2002-2004
- Meteorites and Impacts Advisory Council, Canadian Space Agency, 2003-present

(d) Memberships on other committees, including offices held and dates

- Selection Committee, Henri Poincaré fellowships, Observatoire de la Cote d'Azur, 2000-2002
- NEOSAT (NEA discovery) spacecraft science team. December 2002-present.
- PRIME (Phobos lander) spacecraft science team. Summer 2005-present.

(e) Editorships (list journal and dates)

(f) Reviewer (journal, agency, etc. including dates)

My NASA-related reviewing duties (5-10 proposals per year) is a very major time committment (2 weeks/year) to the research community beyond normal journal-review duties.

Annual participation as reviewer for :

- CRC/CFI college of reviewers (beginning 2003)
- NASA - Planetary Astronomy program (beginning 1998, several grants/year)
- NASA - Exobiology program (beginning 1999, now down to 1 grant/year)
- NASA - Planetary Geology and Geophysics (beginning 1997)

- NASA - Origins program
- NSERC - several reviews per year for BOTH GSC 8 and 17.
- Meteoritics and Planetary Science (beginning 1994)
- Icarus (beginning 1994)
- Nature (beginning 1999)
- Astronomical Journal (beginning 1999)
- Astrobiology (beginning 2001)

Occasional participation as reviewer for :

- Astrophysical Journal
- Canada France Hawaii Telescope
- Gemini and JCMT Telescopes
- Celestial Mechanics and Dynamical Astronomy
- Earth and Planetary Science Letters
- Geochimica and Cosmochimica Acta
- Geophysical Research Letters
- Planetary and Space Science

(h) Consultant (indicate organization and dates)

- Consultant, National Child Exploitation Coordination Centre. (Identification of locality from photographs).
- Consultant, International Astronomical Union Commission 13 (Planetary Nomenclature). 2001–present.
- Consultant, International Astronomical Union Commission 7 (Celestial Mechanics and Dynamical Astronomy). 2000–present.

(i) Other service to the community

Founder of the Canadian Astronomical Society's SSPS (Solar System and Planetary Sciences) committee. Summer 2002.

12. AWARDS AND DISTINCTIONS

(a) Awards for Teaching (indicate name of award, awarding ogranizations, date)

H.D. Block Prize, Dept. of Theoretical and Applied Mechanics at Cornell University, 1994.

(b) Awards for Scholarship (indicate name of award, awarding ogranizations, date)

Early Career Scholar, Peter Wall Institute for Advanced Study, UBC. 2004.

Urey Prize, Division of Planetary Sciences of the American Astronomical Society, 2002.

Asteroid 7638 named Gladman, Asteroids Comets and Meteors meeting, 1999.

Henri Chrétien 'International Collaborative Research Prize', American Astronomical Soc., 1998.

NSERC Postdoctoral Fellowship, 1996-1998.
NSERC Postgraduate Scholarship, 1991-1993.
Sir James Lougheed Scholarship, Alberta Heritage Trust Fund, 1988-1990.
Gold Medal in Physics, University of Alberta, 1988.
Dean's Silver Medal in Science, University of Alberta, 1988.
Louise McKinney post-secondary scholarship, Univ. of Alberta, 1987.
Univ. of Alberta undergraduate scholarship, Univ. of Alberta, 1986.
Louise McKinney post-secondary scholarship, Univ. of Alberta, 1985.
Jane-Ann Robertson memorial scholarship in physics, Univ. of Alberta, 1984.

(c) Awards for Service (indicate name of award, awarding ogranizations, date)

Eleanor York Prize for public service, Dept. of Astronomy at Cornell University, 1996.

(d) Other Awards

Renewal of Tier II Canada Research Chair, Univ. of British Columbia, 2007.
Tier II Canada Research Chair, Univ. of British Columbia, 2002.
Early career scholar award, Peter Wall Institute for Advanced Research, 2004–2005
UBC Science Achievement award for Research, 2004.

13. OTHER RELEVANT INFORMATION

(such as current personnel, major equipment, etc.) [*Max. 1 Page*]

In 2002–2005, a major computational and data reduction facility funded by the CFI-associated funds of Gladman's CRC postion were installed in Hennings 102/102A/102B for research mainly in dynamical astronomy, solar system formation, and planetary science. One component of this facility consists of equipment to accept, process, and analyse large-scale astronomical imaging data, especially that coming from the Legacy Survey starting 2003 using MEGACAM on the Canada-France-Hawaii telescope. Gladman is leading an international team of researchers in Canada, France, Spain, and the United States who exploit this very major investment of telescope resources (70 nights of Megacam survey time, representing more than a million dollars of operational expenses by the telescope). 3-year postdoctoral fellow (Lynne Allen, now Lynne Jones) was a major user of this equipment, several visiting scientists (J.-M. Petit, P. Benavidez, J. Kavelaars, H. Scholl) use this equipment during visits to UBC and remotely over the internet, undergraduate students VanLaerhoven and graduate students Lowe and Coffey have used this equipment for thesis work, with several other undergraduate students (Leung, Scripps, Smith) doing vounteer research work.

As part of this CFI grant, a medium-sized Beolwulf cluster (174 CPUs) has been acquired. Renovations were performed August 2002 – March 2003 to create a laboratory in which to install and use this equipment. The first group of CPUs were installed in June 2003 and an expansion was installed February 2005. Several summer and 449 students (Warrington, Pauls, Nadal, Chan, VanLaerhoven, Croll) have used this architecture as well as external collaborators (R. Jedicke, H. Levison, L. Dones, D. Nesvorny). John Gallant's thesis was made possible by this installation and Jaime Coffey is beginning heavy use of the Beowulf. Matija Cuk has been recruited as a postdoctoral fellow in January 2005 and is a major user of this equipment.

Gladman has led the creation of the virtual Institute for Planetary Science (IPS, web site : http://www.ipsubc.org) to foster increased planetary science activity at UBC. The web site gives information on IPS activities (conference organization, journal club, etc.).

THIS PAGE TO BE REPLACED WITH FINAL PAGE OF ELECTRONIC DOCUMENT

THE UNIVERSITY OF BRITISH COLUMBIA
Publications Record

Date : June 20, 2008

Initials: ______

SURNAME:

FIRST NAME:
MIDDLE NAME(s):

Publication Summary :

	1(a)	1(b)	1(c)	2(a,b,c)	3	4	5
Career Total							
Last 5 Years Total							

1 = Refereed Publications [*]: (a) Journals; (b) Conference Proceedings; (c) Other
2 = Non-Refereed Publications : (a) Journals; (b) Conference Proceedings; (c) Other
3 = Books
4 = Patents
5 = Special Copyrights

[*]=include pagination and indicate with an **asterisk** about 5 papers you consider of primary importance.

Enumerated references begin on following page.

1. <u>REFEREED PUBLICATIONS</u> (submitted work in Sec. 8)

Note: Author order in my publications is strictly related to total effort expended by the author in the justification, performance, and write-up of the research in question.

(a) Journals

1. The Kuiper Belt luminosity function from m_r=21 to 26
   Fraser, W., Kavelaars, J., Pritchet, C., MacWilliams, J., Jones, R. L., Gladman, B., Holman, M., and Petit, J-M. *Icarus*, **195** 827 – 843 (2008).

2. Fugitives from the Vesta Family
   Nesvorny, D., Foig, F., Lazzaro, D., Gladman, B., Carruba, V., and Diniz, T. *Icarus*, **193** 85 – 95 (2008).

3. Outer Solar System Nomenclature
   Gladman, B., Marsden, B., and Van Laerhoven, C. Review chapter in *The Solar System Beyond Neptune* (Univ. of Arizona Press, M. Barucci et al. Eds.), 43 – 57 (2008).

4. The orbital and spatial distribution of the Kuiper Belt
   Kavelaars, J., Jones, L., Gladman, B., Parker, J. W. and Petit, J-M. Review chapter in *The Solar System Beyond Neptune* (Univ. of Arizona Press, M. Barucci et al. Eds.), 71 – 87 (2008).

5. Size distribution of multi-km TNOs
   Petit, J-M., Holman, M., Kavelaars, J., Gladman, B., and Loredo, T. Review chapter in *The Solar System Beyond Neptune* (Univ. of Arizona Press, M. Barucci et al. Eds.), 71 – 87 (2008).

6. Looking for Super Earths in the HD 189733 system : A search for transits in MOST space-based photometry
   Croll, B., J. Matthews, J. Rowe, B. Gladman, E. Miller-Ricci, D. Sasselov, G.A. Walker, R. Kuschnig, D. Lin, D. Guenther, A. Moffat, S. Rucinski, W. Weiss *Astrophys. J.*, **671** 2129 – 2138 (2007).

7. Using long-term transit timing to detect terrestrial planets
   Heyl, J.S. and Gladman, B. *Mon. Not. Royal Astr. Soc.*, **377** 1511 – 1519 (2007).

8. Express delivery of fossil meteorites from the inner asteroid belt to Sweden
   Nesvorný, D., Vokrouhlický, D., Bottke, W., Gladman, B., and Häggström, *Meteoritics and Planetary Science*, **188** 400 – 413 (2007).

9. Looking for giant Earths in the HD 209458 system: A search for transits in MOST space-based photometry
   Croll, B., J. Matthews, J. Rowe, R. Kuschnig, A. Walker, B. Gladman, D. Sasselov, C. Cameron, G. Walker, D. Lin, D. Guenther, A. Moffat, S. Rucinski, W. Weiss *Astrophys. J.*, **658**, 1328 – 1339 (2007).

10. The CFEPS Kuiper Belt Survey: Strategy and Pre-survey Results .
Jones, R. L., Gladman, B., Petit, J-M., Rousselot, P., Mousis, O., Kavelaars, J., Campo-Bagatin, A., Bernabeu, G., **Benavidez, P.**, Parker, J., Nicholson, P., Homan, M., Dores-soundiram, A., Veillet, C., Scholl, H., Mars, G. *Icarus*, **185**, 508 – 522 (2006).

11. Resonant satellite capture
Ćuk, M., and Gladman, B. *Icarus*, **183**, 362 – 372 (2006)

12. The scattered disk as a source of Halley-type comets
Levison, H.F., Duncan, M., Dones, L., and Gladman, B. *Icarus*, **184**, 619 – 633 (2006).

13. Production of the extended scattered disk by rogue planets
B. Gladman and C. Chan. *Astrophys. J. Lett.* **643**, 135 – 138 (2006)

14. Discovery of a low-eccentricity, high-inclination Kuiper Belt Object at 58 AU
Allen, R.L., Gladman, B., Kavelaars, J., Petit, J-M., Parker, J. and Nicholson, P. *Astrophys. J. Lett.* **640**, 83 – 86 (2006)

15. Satellite searches at Pluto and Mars
Nicholson, P., and Gladman, B. *Icarus* **181**, 218 – 222 (2006).

16. The Kuiper Belt's luminosity function from m_R=22–25
J-M. Petit, M. Holman, B. Gladman, J. Kavelaars, H. Scholl, T. Loredo. *Monthly Not. Royal Ast. Soc.* **365**, 429 – 438 (2006).

17. Constraints on the tidal evolution of Triton
Ćuk, M. and Gladman, B. *Astrophys. J. Lett.* **626**, 113 – 116 (2005)

18. The Kuiper Belt and the Solar System's comet disk [Invited Review]
Gladman, B. *Science* **307**, 71 – 75 (2005)

19. Advantages of Searching for Asteroids from Low Earth Orbit: The NEOSSat mission
Hildebrand, A.R., Carroll, K.A., Tedesco, E.F., Faber, D.R., Cardinal, R.D., Matthews, J.M., Kuschnig, R., Walker, G.A.H., Gladman, B., Pazder, J., Brown, P.G., Worden, S.P., Burrell, D.A., Chodas, P.W., Larson, S.M., Wallace, B.J., Muinonen, K., and Cheng, A., *Earth, Moon and Planets* **95**, 33 – 40 (2005)

20. Properties of extremely red objects in an overdense region
Sawicki, M., Stevenson, P., Barrientos, P., Gladman, B. Mallen-Ornelas, G., and van den Bergh, S. *Astrophys. J.*, **627**, 621 – 631 (2005)

21. Impact seeding and re-seeding in the inner Solar System
Gladman, B., Dones, L., Levison, H., Burns, J.A. *Astrobiology*, **5**, 483 – 496 (2005)

22. Decoherence time scales for 'meteoroid streams'
Pauls, A. and Gladman, B. *Meteoritics and Planetary Science* **40**, 1241 – 1256 (2005).

23. Discovery of five irregular moons of Neptune
Holman, M., Kavelaars, J., Grav, T., Gladman, B., Fraser, W., Milisavijevic, D., Nicholson, P., Burns, J., Carruba, V., Petit, J., Rousselot, R., Mousis, O., Marsden, B., Jacobson, R. *Nature* **430**, 865 – 867 (2004)

24. A highly automated moving object detection package
Petit, J-M., Holman, M., Scholl, H., Kavelaars, J., and Gladman, B. *MNRAS* **347**, 471 – 480 (2004)

25. The discovery of faint irregular satellites of Uranus
Kavelaars, J., Holman, M., Grav, T., Milisavljevic, D., Fraser, W., Gladman, B., Petit, J-M., Rousselot, P., Mousis, O., Nicholson, P. *Icarus* **166**, 21 – 32 (2003)

26. Photometric survey of the irregular satellites
T. Grav, M. Holman, B. Gladman, K. Aksnes *Icarus* **166**, 21 – 32 (2003)

27. Discovery and securing TNOs: the CFHTLS ecliptic survey
Petit, J-M. and Gladman, B. *C.R. Physique* **4**, 743 – 753 (2003)

28. On the inclination distribution of the jovian irregular satellites
Carruba, V., Burns, J.A., Nicholson, P., Gladman, B. *Icarus* **158**, 434 – 439 (2002)

29. * Evidence for an extended scattered disk
B. Gladman, M. Holman, T. Grav, J. Kavelaars, P. Nicholson, K. Aksnes, J-M. Petit. *Icarus* **157**, 269 – 279 (2002)

30. Discovery of 12 irregular moons of Saturn
B. Gladman, J. Kavelaars, M. Holman, P. Nicholson, J.A. Burns, C. Hergenrother, J-M. Petit, B. Marsden, R. Jacobson, W. Gray, T. Grav *Nature* **412**, 163 – 166 (2001)

31. * The structure of the Kuiper Belt: Size distribution and radial extent.
B. Gladman, J. Kavelaars, J-M. Petit, A. Morbidelli, M. Holman T. Loredo. *Astronomical Journal* **122**, 1051 – 1066 (2001)

32. Viable Transfer of Microorganisms in the Solar System and Beyond
G. Horneck, C. Mileikowsky, H.J. Melosh J.W. Wilson, F. A. Cucinotta and B. Gladman, In *Astrobiology: The Quest for the Contitions of Life*, (G. Horneck, C. Baumstark-Khan, Eds.), 57 – 79 (2001)

33. A plausible source of the Late Heavy Bombardment
A. Morbidelli, J.-M. Petit, B. Gladman. *Meteoritics & Planet. Sci.* **36**, 371 – 380 (2001)

34. The discovery of the satellites Uranus XVIII, XIX, and XX
B. Gladman, J. Kavelaars, M. Holman, J-M. Petit, H. Scholl, P. Nicholson, and J.A. Burns. *Icarus* **147**, 320 – 324 (2000)

35. Risks threatening viable transfer of microbes between bodies in our solar system
C. Mileikowsky, F. Cucinotta, J. Wilson, B. Gladman, G. Horneck, L. Lindgren, H.J. Melosh, H. Rickman, M. Valtonen, Z. Zheng. *Planet. Space Sci.* **48**, 1107 – 1115 (2000)

36. The Near-Earth Object population.
B. Gladman, P. Michel, Ch. Froeschlé. *Icarus*, **146**, 176 – 189 (2000)

37. Understanding the distribution of near-Earth asteroids
B. Bottke, R. Jedicke, A. Morbidelli, J-M. Petit, B. Gladman. *Science* **288**, 2190 – 2194 (2000)

38. Natural transfer of viable microbes in space.
C. Mileikowsky, F. Cucinotta, J. Wilson, B. Gladman, G. Horneck, L. Lindgren, H.J. Melosh, H. Rickman, and M. Valtonen. *Icarus* **145**, 391 – 427 (2000)

39. A comparison of Öpik-Arnold Monte Carlo methods with direct integrations
L. Dones, B. Gladman, H.J. Melosh, B. Tonks, H. Levison, and M. Duncan, *Icarus* **142**, 509 – 524 (1999)

40. Pencil-beam surveys for faint trans-neptunian comets.
B. Gladman, JJ Kavelaars, P. Nicholson, T. Loredo, and J.A. Burns. *Astron. J.* **116**, 2042 – 2054 (1998)

41. Orbital and temporal distributions of meteorites originating in the asteroid belt.
A. Morbidelli and B. Gladman, *Meteoritics & Planet. Sci.*, **33**, 999 – 1016 (1998)

42. * Discovery of two distant irregular moons of Uranus
B. Gladman, P. Nicholson, J.A. Burns, J. Kavelaars, B. Marsden, G. Williams, and W. Offut. *Nature*, **392**, 897 – 899 (1998)

43. Asteroid showers on Earth after family-breakup events
V. Zappalà, A. Cellino, B. Gladman, S. Manley, F. Migliorini. *Icarus* **134**, 176 – 179 (1998)

44. Dynamically depleted regions in the Saturnian system for Cassini's safe passage
J.A. Burns and B. Gladman, *Planetary and Space Science* **46** 1401 – 1407 (1998)

45. Destination Earth: Martian meteorite delivery
B. Gladman, *Icarus* **130**, 228 – 246 (1997)

46. Dynamical lifetimes of objects injected into asteroid belt resonances
B. Gladman, F. Migliorini, A. Morbidelli, V. Zappala, P. Michel, A. Cellino, Ch. Froeschlé, H. Levison, M. Bailey, and M. Duncan, *Science* **277**, 197 – 201 (1997)

47. Kuiper Belt searches from the Palomar 5-m telescope.
B. Gladman and J. Kavelaars, *Astron. Astrophys.* **317**, 35 – 38 (1997)

48. Vesta fragments from ν_6 and 3:1 resonances: Implications for V-type NEAs and HED meteorites
F. Migliorini, A. Morbidelli, V. Zappalà, B. Gladman, M. Bailey, and A. Cellino, *Meteoritics & Planet. Sci.* **32**, 903 – 916 (1997)

49. Relaxation oscillations in tidally evolving satellites
D. Quinn, B. Gladman, R. Rand, & P. Nicholson, *Celest. Mechanics* **67**, 111 – 130 (1997)

50. * The exchange of impact ejecta between terrestrial planets
B. Gladman, J.A. Burns, M. Duncan, P. Lee, H. Levison, *Science* **271**, 1387 – 1392 (1996)

51. Synchronous locking of tidally evolving satellites
B. Gladman, D. Quinn, P. Nicholson, and R. Rand, *Icarus* **122**, 166 – 192 (1996)

52. The dynamical evolution of lunar impact ejecta
B. Gladman, J.A. Burns, M. Duncan, and H. Levison, *Icarus* **118**, 302 – 321 (1995)

53. * Dynamics of systems of two close planets
B. Gladman, *Icarus* **106**, 247 – 263 (1993)

54. Symplectic integrators for long-term integrations in celestial mechanics
B. Gladman, M. Duncan, and J. Candy, *Celest. Mechanics* **52**, 221 – 240 (1991)

55. On the fates of minor bodies in the outer solar system
B. Gladman and M. Duncan, *Astronomical Journal* **100**, 1680 – 1693 (1990)

(b) Refereed Conference Proceedings

1. Nomenclature in Kuiper Belt
B. Gladman
Highlights of Astronomy, ASP (A. Lemaitre and H. Rickman, Eds.), **12** 193 – 198 (2003)

2. Late planetesimal delivery and the composition of the giant planets
T. Guillot and B. Gladman, In *Disks, Planetesimals and Planets: ASP conference series Vol. 219*, (F. Garzón *et al.* Eds.), 475 – 485 (2001)

3. Does Pluto affect the trans-neptunian region?
B. Gladman, J-M. Petit, and M. Duncan, in *Minor Bodies in the Outer Solar System*, ESO conference proceedings, (R. West Ed.), Springer-Verlag, (2001)

4. The power of pencil-beam searches for trans-neptunian science
B. Gladman, in *Minor Bodies in the Outer Solar System*, ESO conference proceedings, (R. West Ed.), Springer-Verlag, (2001).

5. Ejecta transfer between terrestrial planets
B. Gladman, J.A. Burns, H. Levison, and M. Duncan, In *Dynamics, Ephemerides, and Astrometry of the Solar System*, (S. Ferraz-Mello, B. Morando, and J.-E. Arlot, Eds.), Kluwer, Dordrecht, 229 – 232 (1996)

(c) Other

- International Astronomical Union observational publications

The results of small-body observations are reported to the Minor Planet Center (MPC) of the International Astronomical Union (IAU), and are published as either IAU circulars (IAUC), minor planet electronic circulars (MPEC), or Minor Planet Circulars (MPC).
In the listings below, TNO = Trans-Neptunian Object (that is, Kuiper Belt object).
Note that the year of publication is part of the MPEC name, and that the entries below are in chronological order.

1 MPEC 1995-C17. Recovery of TNO 1993 SC
2 MPEC 1995-M07. Recovery of TNO 1994 TB
3 MPEC 1996-C05. Recovery of TNO 1995 HM5
4 MPC 26659-26660. 1996 recoveries of 5 TNOs
5 MPC 29736, 1997. Recovery TNO 1997 CQ29
6 MPC 29736, 1997. Discovery of asteroid 1997 GF38
7 MPC 29738, 1997. Recovery of asteroid (2739) Taguacipa
8 MPEC 1997-J02. Discovery of TNO 1997 CQ29
9 MPEC 1997-R12. Discovery of TNO 1997 RT5
10 MPEC 1997-R14. Recovery of TNO 1996 RQ20
11 MPEC 1997-R15. Recovery of TNO 1996 SZ4
12 MPEC 1997-S09. Discovery of TNO 1997 RX9
13 MPEC 1997-S10. Recovery of TNO 1996 TK66
14 MPEC 1997-S13. Recovery of TNO 1996 TR66
15 MPEC 1997-S16. Discovery of TNO 1997 SZ1
16 IAUC 6764. Discovery of Uranian moon S/ 1997 U 1
17 IAUC 6765. Discovery of Uranian moon S/ 1997 U 2
18 IAUC 6780. Dec 1997 recovery of Uranian moon S/ 1997 U 1
19 IAUC 6833. Archival recovery of S/ 1997 U 2
20 IAUC 6869. Mar 1998 recovery of Uranian moon S/1997 U 2 = Sycorax
21 IAUC 6870. Mar 1998 recovery of Uranian moon S/1997 U 1 = Caliban
22 MPEC 1998-E05. Discovery of TNO 1997 RL13
23 MPEC 1998-G10. Discovery of TNO 1997 GA45
24 MPEC 1999-D06. Discovery of TNO 1999 DA
25 MPEC 1999-J03. Discoveries of TNOs 1999 DZ7, 1999 DA8
26 MPEC 1999-K19. Discoveries of TNOs 1999 DB8, 1999 DC8
27 MPEC 1999-L41. Discoveries of TNOs 1999 DD8, DE8, DF8
28 MPEC 1999-M30. Discovery of TNO 1999 DG8.
29 MPEC 1999-N10. Discovery of TNO 1999 DH8
30 IAUC 7230] July 1999 discovery of 2 uranian satellites (S/1999 U 1 and U 2)
31 IAUC 7248] July 1999 discovery of uranian satellite S/1999 U 3
32 IAUC 7385] fall 1999 recoveries of uranian satellite S/1999 U 1, U 2, U 3
33 MPEC 1999-P29. Discovery of Centaur 1999 OX3
34 MPEC 1999-P30. Discoveries of TNOs 1999 OY3, OZ3, OA4
35 MPEC 1999-T23. Discoveries of TNOs 1999 OC4, OD4

36 MPEC 1999-T47. Discoveries of TNOs 1999 OE4, OF4
37 MPEC 1999-V32. Discovery of TNO 1999 OG4
38 MPEC 1999-W12. Discoveries of TNOs 1999 OH4,OJ4,OK4,OL4,OM4,ON4,OO4
39 MPEC 1999-X02. Recovery of TNO 1999 SN165
40 MPEC 2000-A26. Discovery of TNO 1999 RA215
41 MPEC 2000-C05. Discovery of TNOs 1999 DM8, DN8, DO8, DP8, DQ8, DR8
42 MPEC 2000-DL8. Discovery of TNO 1999 DL8
43 MPEC 2000-G21. Recovery of TNO 1999 HS11
44 MPEC 2000-G35. Recovery of TNO 1999 HB12
45 MPEC 2000-H08. Recovery of TNO 1999 HU11
46 MPEC 2000-H31. Discovery of TNOs 2000 FA8,FB8,FC8,FD8,FE8,FF8,FG8
47 MPEC 2000-K28. Recovery of TNOs 2000 FD8, FE8 and GM137
48 IAUC 7447. Recovery of Uranian satellite S/1999 U 3
49 IAUC 7450. Recovery of Uranian satellite S/1999 U 1
50 MPEC 2000-H31. Discovery of TNOs 2000 KK4, KL4
51 IAUC 7469. Recovery of new Jovian satellite S/1999 J 1
52 MPEC 2000-P13. Recovery of TNO 2000 OJ4
53 MPEC 2000-P17. Recovery of TNO 2000 OP4
54 IAUC 7472. Photometry of jovian satellite S/1999 J 1
55 MPEC 2000-P25. Discovery of TNO 2000 OB51
56 IAUC 7473. Recovery of uranian satellite S/1999 U 2
57 MPEC 2000-P27. Discovery of TNO 2000 OY51
58 MPEC 2000-S11. Recovery of TNO 1999 RA215
59 MPEC 2000-S18. Recovery of TNO 1999 OA4
60 MPEC 2000-S19. Recovery of TNO 1999 OE4
61 MPEC 2000-S23. Recovery of TNO 1999 OK4
62 MPEC 2000-S24. Discovery of 8 TNOs
63 MPEC 2000-S37. Recovery of TNOs 2000 PE30, PF30, PM30
64 MPEC 2000-U05. Discovery of 18 TNOs and 1 Centaur
65 MPEC 2000-U08. Identification of TNO 1999 OL4 = 2000 PF30
66 IAUC 7512. Discovery of new saturnian satellites S/2000 S 1 and S 2
67 IAUC 7513. Discovery of new saturnian satellites S/2000 S 3 and S 4
68 MPEC 2000-W40. Discovery of TNOs 2000 WV12, WW12, WX12
69 IAUC 7521. Discovery of new saturnian satellites S/2000 S 5 and S 6
70 IAUC 7538. Discovery of new saturnian satellites S/2000 S 7, S 8, and S 9
71 IAUC 7539. Discovery of new saturnian satellite S/2000 S 10
72 MPEC 2000-X43. Recovery of TNO 2000 AF255
73 MPEC 2000-Y11. Recovery of TNO 2000 FD8
74 MPEC 2000-Y12. Recovery of TNO 2000 FE8
75 IAUC 7545. Discovery of new saturnian satellite S/2000 S 11
76 MPEC 2000-Y13. Astrometry of new saturnian satellite S/2000 S 11
77 MPEC 2000-Y14. Recovery of saturnian satellites S 3, S 4, S 5, S 6, S 10
78 MPEC 2000-Y15. Recovery of saturnian satellites S 1, S 2, S 7, S 8, S 9
79 MPEC 2000-Y18. Discovery of TNOs 2000 YU1, YW1, YX1, YY1, YZ1, YA2
80 MPEC 2000-Y19. Discovery of TNOs 2000 YB2, YC2, YD2, YE2, YF2, YG2, YH2
81 IAUC 7548. Discovery of new saturnian satellite S/2000 S 12
82 MPEC 2000-Y33. Astrometry of new saturnian satellite S/2000 S 12

83 MPEC 2001-D35. Recovery of TNO 1999 DA
84 MPEC 2001-D36. Recovery of TNOs 2000 FB8, FC8, FF8, FG8
85 MPEC 2001-E19. Recovery of TNO 1999 DH8
86 MPEC 2001-F42. Recovery of TNO 2000 CR105 (largest-known pericenter SDO)
87 MPEC 2001-F57. Discovery of near-Earth object 2001 FO127
88 MPEC 2001-G25. Discovery of TNO 2001 FU172
89 MPEC 2001-H42. Recovery of TNO 1999 JG81
90 MPEC 2001-P13. Discoveries of TNOs 2000 SW370,SX370,SY370
91 MPEC 2001-Q09. Recovery of TNO 2000 PJ30=1999 OO4
92 MPEC 2001-Q10. Recovery of TNO 2000 OB51
93 MPEC 2001-Q11. Recovery of TNO 2000 OY51
94 MPEC 2001-Q12. Recovery of TNO 2000 PG30
95 MPEC 2001-Q13. Recovery of TNO 2000 PW29,PY29,PC30,PD30
96 MPEC 2001-Q14. Recovery of TNO 2000 PV29,PX29,PN30
97 MPEC 2001-Q17. Discovery of TNOs 2001 OJ108,OK108,OL108,OM108,ON108,OO108
98 MPEC 2001-Q19. Recovery of TNO 1999 OD4, 2001 KL76,KA77
99 MPEC 2001-Q24. Discovery of TNOs 2001 OQ108,OR108,OS108,OT108,OU108
100 MPEC 2001-R04. Discovery of TNOs 2001 OY108,OZ108
101 MPEC 2001-R08. Recovery of TNO 2000 PM30
102 MPEC 2001-T06. Recovery of Saturnian satellites S 1,2,4,6,12
103 MPEC 2001-T07. Recovery of Saturnian satellites S 5,9,11
104 MPEC 2001-T16. Recovery of TNO 2000 PK30
105 MPEC 2001-T07. Recovery of Saturnian satellites S 8,10
106 MPEC 2001-T53. Discovery of TNO 2001 OG109
107 MPEC 2001-U42. Recovery of Saturnian satellite S 2000 S 3
108 MPEC 2001-V15. Recovery of TNO 2000 PH30
109 MPEC 2001-V16. Discovery of TNOs 2001 OM109, SD291, SE291
110 MPEC 2001-V18. Recovery of TNO 2000 PA30
111 IAUC 7749. Discovery of binary TNO 2001 QW322
112 MPEC 2001-V34. Astrometry of binary TNO 2001 QW322
113 MPEC 2001-V37. Recovery of TNOs 2000 YX1, YZ1, YC2
114 MPEC 2001-V57. Discovery of TNO 2001 VN71
115 MPEC 2001-W56. Recovery of TNO 1999 KR18
116 MPEC 2001-X56. Recovery of TNO 2000 WV12
117 MPEC 2001-X57. Recovery of TNO 2000 YV1
118 MPEC 2001-X58. Recovery of TNO 2000 YY1
119 MPEC 2001-Y07. Recovery of TNO 2000 SY370
120 MPEC 2002-B06. Recovery of TNOs 2000 YF2, YU1
121 MPEC 2002-B32. Identification of TNO 2001 OQ108 = 2001 KR76
122 MPEC 2002-F74. Recovery of TNO 2001 KF76
123 MPEC 2002-F75. Discovery of TNOs 2002 FU6, FV6, FW6, FX6
124 MPEC 2002-F75. Discovery of TNOs 2001 FJ194,FK194,FL194,FM194,FN194
125 MPEC 2002-G65. Recovery of TNO 2001 FL194
126 MPEC 2002-G68. Discovery of TNO 2002 FP7
127 MPEC 2002-H09. Recovery of TNO 2001 FM194
128 MPEC 2002-K07. Recovery of TNO 2001 KL76
129 MPEC 2002-L30. Recovery of binary TNO 2001 QW322

130 MPEC 2002-M03. Recovery of TNO 2001 QX322
131 MPEC 2002-M44. Recovery of TNO 2001 KY76
132 MPEC 2002-M45. Recovery of TNO 2001 KN77
133 MPEC 2002-N02. Recovery of TNO 2001 OK108
134 MPEC 2002-N17. Recovery of TNO 2001 OZ108
135 MPEC 2002-N18. Recovery of TNO 2001 KH76
136 MPEC 2002-O13. Recovery of TNO 2001 OG109
137 IAUC 7749. Discovery of uranian satellite S/2001 U 1
138 MPEC 2002-S64. Astrometry of uranian satellite S/2001 U 1
139 IAUC 8047. Discovery of 3 satellites of Neptune
140 MPEC 2003-A75. Astrometry of neptune satellites S/2002 N 1 - N 3
141 MPEC 2003-F59. Recovery of jovian satellite S/2001 J 6
142 MPEC 2003-G09. Discovery of jovian satellite S/2003 J 13
143 MPEC 2003-G10. Discovery of jovian satellite S/2003 J 14
144 MPEC 2003-G17. Discovery of jovian satellite S/2003 J 15
145 IAUC 8116. Discovery of jovian satellites S/2003 J 16, 17, 18
146 MPEC 2003-G18. Astrometry of jovian satellite S/2003 J 16
147 MPEC 2003-G19. Astrometry of jovian satellite S/2003 J 17
148 MPEC 2003-G20. Astrometry of jovian satellite S/2003 J 18
149 IAUC 8125. Discovery of jovian satellites S/2003 J 19 and J 20
150 MPEC 2003-G64. Astrometry of jovian satellite S/2003 J 19
151 MPEC 2003-G67. Astrometry of jovian satellite S/2003 J 20
152 IAUC 8138. Discovery of jovian satellite S/2003 J 21
153 MPEC 2003-K45. Astrometry of jovian satellite S/2003 J 21
154 MPEC 2003-S105. Astrometry uranian satellite S/2001 U 2
155 MPEC 2003-S107. Astrometry of neptunian satellite S/2002 N 4
156 IAUC 8213. Discoveries of satellite S/2001 U 2 and S/2002 N 4
157 MPEC 2003-T29. Astrometry of uranian satellite S/2001 U 3
158 IAUC 8216. Discovery of uranian satellite S/2001 U 3
159 IAUC 8276. Discovery of jovian satellite S/2003 J 22
160 MPEC 2004-B41. Astrometry of jovian satellite S/2003 J 22
161 MPEC 2004-D41. Recovery of saturnian satellite S/2003 S 1
162 MPEC 2004-D43. Recovery of jovian satellite S/2002 J 1
163 MPEC 2004-E09. Recovery of jovian satellite S/2003 J 11
164 MPEC 2004-E30. Recovery of jovian satellite S/2003 J 6
165 MPEC 2004-E39. Recovery of jovian satellite S/2003 J 20
166 MPEC 2004-H07. Recovery of jovian satellite S/2003 J 1
167 MPEC 2004-H08. Recovery of jovian satellite S/2003 J 13
168 MPEC 2004-K18. Recovery of TNO 2002 GV32
169 MPEC 2004-K29. Recovery of TNOs 2003 FE128, FF128, and GF55
170 MPEC 2004-L28. Recovery of TNO 2003 FB128
171 MPEC 2004-X46. Discovery of TNO 1999 LB37
172 IAUC 8596. Photometric variation of 2003 UB313
173 MPEC 2005-W57. Discovery of TNOs 2002 PT170, PU170, and PV170
174 MPEC 2005-W58. Discovery of TNOs 2002 PTW70, PX170, and PY170
175 MPEC 2005-W59. Discovery of TNOs 2002 PA171, PB171, and PC171
176 MPEC 2005-W60. Discovery of TNOs 2002 PR170, PS170, and PZ170

177 MPEC 2005-X72. Discovery of TNO 2004 XR190
178 MPEC 2006-C55. Precovery of saturnian satellite S/2004 S 11
179 MPEC 2006-H29. Discovery of 45 TNOs
180 MPEC 2006-H30. Re-discovery of TNOs 2001 XT254 and 2001 XH255
181 MPEC 2006-H35. Discovery of 12 TNOs
182 MPC 2007 - 58529. Minor planet observations.
183 MPEC 2007-F08. Observation of comet 99/P Kowal.
184 MPC 62571 (2008). Tracking observations of Kuiper Belt objects.
185 MPC 62572 (2008). ???

End of International Astronomical Union observational publications
185 publications were listed above (section 3c).

2. NON-REFEREED PUBLICATIONS

(a) Journals

- **Invited reviews**

1. Twenty-eight ways to build a solar system
   B. Gladman, *Nature*, **396**, 513 – 514 (1998)

- **Letters**

2. Mars meteorite transfer: Simulation
   B. Gladman and J.A. Burns, *Science* **274**, 161 – 162 (1996)

(b) Non-refereed Conference Proceedings

- Greater than 2 pages.

1. The Canadian Near Earth Space Surveillance (NESS) Microsatellite Project will Discover and Track Low Delta V near-Earth Asteroids by Observing at Low Solar Elongations
   Hildebrand, A.R., Carroll, K.A., Tedesco, E.F., Faber, D.R., Cardinal, R.D., Matthews, J.M., Kuschnig, R., Walker, G.A.H., Gladman, B., Pazder, J., Brown, P.G., Worden, S.P., Burrell, D.A. in *Proceedings of the 55th International Astronautical Congress, Vancouver, British Columbia.* Paper IAC-04-IAA.4.11.2.08 CD format (2004)
2. The power of pencil-beam searches for trans-neptunian science
   B. Gladman. in *Minor Bodies in the Outer Solar System*, ESO conference proceedings, (R. West Ed.), Springer-Verlag, (2001).
3. Pencil-beam searches for faint Kuiper Belt objects.
   B. Gladman, J. Kavelaars, in *Proceedings of the Fifth CFHT Users Meeting*, (P. Martin and S. Rucinski, Eds.), CFHT Corporation, 192 – 196 (1998)
4. Probing the shape of the globular cluster luminosity function
   J. Kavelaars, B. Gladman, in *Proceedings of the Fifth CFHT Users Meeting*, (P. Martin and S. Rucinski, Eds.), CFHT Corporation, 155 – 159 (1998)

- up to 2 pages.

5. Gamma camera based cone beam transmission tomography and its application to SPECT
   L. Hahn, D. Swerhone, B. Gladman, R. Kloiber, and A. Crawley. *European Jnl. of Nuclear Medicine* **18**, 601 (1991)
6. Orbital stability of co-orbiting bodies
   B. Gladman *BAAS* **24**, 981–2 (1992)

7. Producing small Earth approachers from lunar ejecta
   B. Gladman and J.A. Burns. *BAAS* **25**, 1117 (1993)

8. Dynamical evolution of escaping lunar ejecta
   B. Gladman, J.A. Burns and P. Lee. *BAAS* **26**, 1104 (1994)

9. Delivery of lunar meteorites to the Earth
   B. Gladman, J.A. Burns and P. Lee. *LPSC XXVI*, 465–466 (1995)

10. Meteorites from Mars and Mercury (Yes and Probably No)
    B. Gladman and J.A. Burns. *BAAS* **27**, 1074 (1995)

11. The delivery of martian and lunar meteorites to Earth. **1996 DPS Invited Review**
    L. Dones, B. Gladman, H.J. Melosh, H.F. Levison, M. Duncan. *BAAS* **28**, 1054 (1996)

12. Short dynamical lifetimes & the importance of Sun-grazing in the solar system
    A. Morbidelli, B. Gladman and 8 co-authors. *BAAS* **29**, 959 (1997)

13. Look out below: From the asteroid belt to meteorites
    B. Gladman and A. Morbidelli. *BAAS* **29**, 959 (1997)

14. Production of potential terrestrial planet impactors in family-forming events in the asteroid main belt
    A. Cellino, B. Gladman, S. Manley, F. Migliorini, and V.Zappalà. *BAAS* **29**, 959 (1997)

15. Dynamically cleared regions beyond Saturn's rings for Cassini's safe passage
    J.A. Burns and B. Gladman. *BAAS* **29**, 999 (1997)

16. Discovery of the first 2 uranian irregular moons
    B. Gladman, P. Nicholson, J.A. Burns, and J. Kavelaars. *BAAS* **30**, 1099 (1998)

17. Dynamical Interrelations between meteorites, NEAs, comets, and asteroids
    B. Gladman. *Annales Geophysicae, Supp. III* **16**, 1034 (1998)

18. A search for further irregular satellites of Uranus and Neptune
    B. Gladman, J. Kavelaars, P. Nicholson, J. Petit, H. Scholl, J. Burns. *BAAS* **31**, 1074 (1999)

19. Understanding the distribution of near-Earth asteroids
    W. Bottke, R. Jedicke, A. Morbidelli, B. Gladman, J-M. Petit. *BAAS* **31**, 1116 (1999)

20. The de-biased distribution of NEAs
    A. Morbidelli, W. Bottke, R. Jedicke, B. Gladman, J-M. Petit. *BAAS* **31**, 1116 (1999)

21. Delivery of planetesimals and giant planet formation
    T. Guillot and B. Gladman. *BAAS* **31**, 1126 (1999)

22. The distant Kuiper Belt
B. Gladman, J. Kavelaars, J-M. Petit, A. Morbidelli, M. Holman. *BAAS* **32**, 1029 (2000)

23. The discovery of Uranus XVIII-XX
M. Holman, B. Gladman, J. Kavelaars, J. Petit, H. Scholl, P. Nicholson, J.A. Burns. *BAAS* **32**, 1077 (2000)

24. A plausible cause of the late heavy bombardement
A. Morbidelli, J-M. Petit, B. Gladman, J. Chambers. *BAAS* **32**, 1100 (2000)

25. Discovery and long-term tracking of TNOs
J-M. Petit, B. Gladman, J. Kavelaars, M. Holman, J. Parker, T. Grav, C. Veillet *BAAS* **33**, 1030 (2001)

26. Evidence for an 'extended' scattered disk
B. Gladman, M. Holman, T. Grav, J. Kavelaars, P. Nicholson, K. Aksnes, J-M. Petit. *BAAS* **33**, 1030–1031 (2001)

27. Deep optical searches for faint uranian and neptunian satellites.
M. Holman, J. Kavelaars, B. Gladman, J-M. Petit, D. Milisavljevic, P. Nicholson. *BAAS* **33**, 1108 (2001)

28. On the orbital distribution of irregular satellites
J.A. Burns, V. Carruba, P.D. Nicholson B. Gladman, M. Holman. *BAAS* **33**, 1129 (2001)

29. Transfer of mercurian impact ejecta to Earth and implications for mercurian meteorites.
B. Gladman *LPSC XXXIV*, 1993–1994 (2003)

30. First results of the CFHLS Kuiper Belt Survey
R. Allen, B. Gladman, J. Kavelaars, J. Parker, J-M. Petit *BAAS* **36**, 1129 (2004)

31. The Kuiper Belt's Luminosity Function from m_R=22-25.
J-M. Petit, M. Holman, B. Gladman, J. Kavelaars, H. Scholl *BAAS* **36**, 1081 (2004)

32. The Extended Scattered Disk: Mapping it...Creating it....
B. Gladman, C. Chan, E. Nadal *BAAS* **36**, 1082 (2004)

33. The Scattered Disk as a source of Halley-type comets
H. Levison, M. Duncan, L. Dones, B. Gladman *BAAS* **36**, 1082 (2004)

34. SKADS: Sub-Kilometer Asteroid Diameter Survey
D. Davis, B. Gladman, R. Jedicke, G. Williams *BAAS* **36**, 1142 (2004)

35. Contraints on the orbital evolution of Triton
M. Ćuk and B. Gladman *BAAS* **37**, 668 (2005)

36. Lunar Cratering Asymmetries.
J. Gallant and B. Gladman *LPSC XXXVI*, CD-ROM (2006)

37. Meteoroid Transfer to Europa and Titan.
B. Gladman, L. Dones, H. Levison, J. Burns, J. Gallant *LPSC XXXVI*, CD-ROM (2006)

38. Debiasing the Kuiper Belt's orbital distribution. B. Gladman *BAAS* **38**, 546 (2006)

39. The Unusual TNO 2004 XR190 (aka Buffy). R.L. Jones, B. Gladman, J. Kavelaars, J. Petit, J.W. Parker, men P. Nicholson *BAAS* **38**, 550 (2006)

40. The Sub-Kilometer Asteroid Diameter Survey. D. Davis, B. Gladman, R. Jedicke, G. Williams *BAAS* **38**, 581 (2006)

41. Lunar Trojans as the source of the lunar cataclysm. M. Ćuk, B. Gladman, **J. Gallant** *BAAS* **38**, 616 (2006)

42. Heavy element enrichment of the gas giant planets. **J. Coffey**, B. Gladman *BAAS* **39**, 496 (2007)

43. Origin of Basaltic asteroids in the main asteroid belt. Roig, F., D. Nesvorny, B. Gladman, R. Gil-Hutton, D. Lazzaro, V. Carruba, T. Mothe-Diniz. *BAAS* **39**, 512 (2007)

44. The orbital structure of the plutinos. B. Gladman *BAAS* **39**, 545 (2007)

45. Mars Indirect: Phobos as a crititcal step in human Mars exploration. P. Lee, S. Braham, B. Gladman, G. Mungas, M. Silver, M. West. in *First International Conference on the Exploration of Phobos and Deimos.* LPI contribution No. 1377. Lunar and Planetary Institute, Houston, p. 18 (2007)

46. PRIME: A Phobos lander mission to explore the origin of Mars's inner moons R. Richardes, P. Lee, A. Hildebrand, PRIME science team. in *First International Conference on the Exploration of Phobos and Deimos.* LPI contribution No. 1377. Lunar and Planetary Institute, Houston, p. 18 (2007)

47. Origin and Evolution of Phobos and Deimos. B. Gladman. in *First International Conference on the Exploration of Phobos and Deimos.* LPI contribution No. 1377. Lunar and Planetary Institute, Houston, p. 18 (2007)

48. CFEPS: The Canada-France Ecliptic Plane Survey of the Kuiper Belt's orbital structure. B. Gladman, J. Kavelaars, C. VanLaerhoven. in *Planetary Science Research Symposium* J. Royal Astron. Society of Canada, **102**, p. 52 (2008)

49. The near-Earth object surveillance satellite (NEOSSat) will conduct an efficient space-based asteroid survey at low solar elongations. Hildebrand, A.R., Tedesco, E.F., Carroll, K.A., Cardinal, R.D., Matthews, J.M., Gladman, B., Kaiser, N.R. Brown, P.G., Wiegert, P., Larsen, S.M. Worden, S.P., Wallace, B.J., Chodas, P.W., Gravnik, M., Gurall, P. Asteroids, Comets, and Meteors 2008.

50. Resonant Dynamics of Kuiper Belt Objects and Induced Bias in Surveys. B. Gladman *BAAS* **39**, 4.01 (2008)

(c) Other

- **Popular articles**

1. Superseasons B. Gladman, in *The Universe in the Classroom*, (Teacher's newsletter of the Astron. Soc. of the Pacific) **29/30**, 9 (1995)
2. Delivery of lunar meteorites to the Earth. B. Gladman, J.A. Burns, and P. Lee, *Meteorite!*, November 1995, 16 (1995)

- **Errata**

3. Errata: The Discovery of Uranus XIX, XX, and XXI
   B. Gladman, J. Kavelaars, M. Holman, J-M. Petit, H. Scholl, P. Nicholson, and J.A. Burns. *Icarus* **148**, 320 (2000)

- **Reports**

4. Irregular satellites of Uranus
   B. Gladman in *IAU Reports on Astronomy* (J. Andersen ed.) **XXIVA**, 1 − 20 (1999)

3. BOOKS

(a) Authored

1. Planetary Dynamics
   J. Burns, B. Gladman, R. Greenberg. (Cambridge University Press), [90% complete] (2008)

(c) Chapters

1. Meteoritic Parent Bodies: Their number and identification
   T. Burbine, T. McKoy, A. Meibom, B. Gladman and K. Keil. in *Asteroids III* (Univ. Arizona Press, B. Bottke Ed.), 653–658 (2002)

4. PATENTS

5. SPECIAL COPYRIGHTS

6. ARTISTIC WORKS, PERFORMANCES, DESIGNS

7. OTHER WORKS

8. WORK SUBMITTED (including publisher and date of submission)

1. Mercurian Impact Ejecta: Meteorites and Mantle
   B. Gladman & **J. Coffey**. *Meteoritics and Planetary Sci.*, submitted Jan 2008, in revision.

2. Asymmetric lunar cratering
   J. Gallant and B. Gladman. *Icarus*, submitted June 2006, in revision.

3. Lunar trojans as the source of the Lunar cataclysm
   Ćuk, M., Gladman, B., **Gallant, J.** *Icarus*, submitted October (2006), revised Mar. 2008

4. SKADS : A sub-kilometer asteroid diameter survey
   Gladman, B., D. Davis, C. Neese, G. Williams, R. Jedicke, J. Kavelaars, J-M. Petit, H. Scholl, M. Holman, **B. Warrington** . *Icarus*, submitted August (2006), revised and resubmitted.

9. WORK IN PROGRESS (including degree of completion)

1. CFEPS : The first (L3) data release
   J. Kavelaars, B. Gladman, and 15 co-authors *Astronomical Journal* [95%]

2. Using meteorite return to diagnose the atmospheric barrier
   C. Chan and B. Gladman. *Icarus*, [90%]

3. Natural transfer of biological material to Europa and Titan
   B. Gladman and 4 co-authors. *Icarus*, [70%]

4. Stability in the outer solar system
   B. Gladman and E. Nadal. *New Astronomy*, (2007) [40%]

5. Rogue Planets
   B. Gladman. *Scientific American*, invited article (2007) [10%]

THE UNIVERSITY OF BRITISH COLUMBIA

Publications Record

Date : June 20, 2008

Initials: ____

SURNAME: Gladman

FIRST NAME: Brett
MIDDLE NAME(s): James

Publication Summary :

	1(a)	1(b)	1(c)	2(a,b,c)	3	4	5
Career Total	55	5	185	56	2	0	0
Last 5 Years Total	25	1	64	17	2	0	0

1 = Refereed Publications [*]: (a) Journals; (b) Conference Proceedings; (c) Other
2 = Non-Refereed Publications : (a) Journals; (b) Conference Proceedings; (c) Other
3 = Books
4 = Patents
5 = Special Copyrights

[*]=include pagination and indicate with an **asterisk** about 5 papers you consider of primary importance.

Enumerated references begin on following page.