

Conference on Geometric Analysis

24- 28 July, 2017
University of British Columbia,
Vancouver, BC

Conference Schedule



Pacific Institute *for the*
Mathematical Sciences

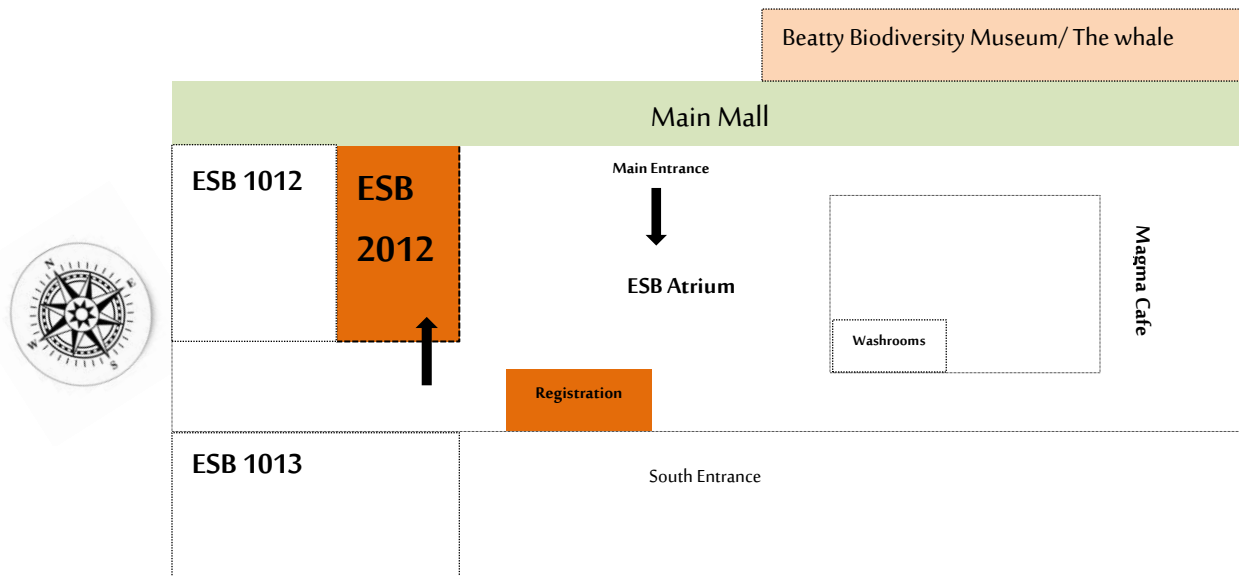


Program at a Glance

	Sun 23	Mon 24	Tue 25	Wed 26	Thur 27	Frid 28
8:30am		Registration & Check in				
8:50am		Welcome From PIMS and Orgs				
9:00am		J. Cheeger	J.-M. Bismut	M. Struwe	W. Ballmann	A. Futaki
10:00am		Coffee Break	Coffee Break	Coffee Break	Coffee Break	Coffee Break
10:30am		J. Lott	W. Zhang	B. White	S. Kolodziej	Y. Rubinstein
11:30am		J. Viaclovsky	T. Riviere	Y.-Y. Li	A. Naber	Y. Yuan
12:30pm	Arrivals and check-in to suites at UBC: *Ponderosa Commons, *Carey Centre Residence	Lunch, Hosted	Lunch- Own	Lunch- Own	Lunch- Own	Lunch- Own
2:00pm		N. Sesum	B. Kleiner		S.Paul	
3:00pm		Coffee Break	Coffee Break		Coffee Break	
3:30pm		J. Wang	R. Bamler		J. Streets	
Evening Events					6:00pm Conference Dinner at the UBC Golf Club 5185 University Blvd	

There will be photography throughout this event. PIMS' event photography is used across a variety of our communications platforms including web, print and electronic promotional materials. If, for any reason, you wish not to have your photo taken or used in this manner, please contact the event organizers.

Conference Room Guide: Earth Sciences Building, Room 2012



** Not drawn to scale. See detailed UBC map on the last page


General Travel Directions:

UBC Map link: <http://www.maps.ubc.ca/PROD/images/pdf/ubcmap.pdf>

Airport to UBC: Easiest by taxi (25min, around \$30). If your accommodation is at Walter H Gage Towers, please give them the address: 5959 Student Union Boulevard, UBC. By public transport, take the Canada Line (rail) to Broadway-City Hall station. From Broadway-City Hall station, cross Broadway and Cambie streets to get to the #99 UBC bus stop in front of London Drugs. Tickets (valid for the whole journey to UBC) can be purchased from the machine in the airport station. Cost: approximately \$6. Journey time: Circa more than 1 hour

UBC Bus Loop/ Gage to Earth Science Building (ESB) 2207 Main Mall: A quick 10min walk. See UBC map. Head west past the student union building, cross East Mall and get onto Main Mall. Turn left (South) on Main Mall and Earth Science Building will be on your right after a few minutes. It is a large new building, and is on Main Mall directly across from the Beatty Biodiversity Centre and prominent blue whale skeleton.

Getting Started

 **Get connected:** Select the "ubcvisitor" wireless network on your wireless device. Open up a web browser, and you will be directed to the login page.

FAQs

Q: Where do I check in on the first day? Check-in and package pick up can be done in the **Earth Sciences Building (ESB) Atrium**.

Q: Where are the sessions?

- All plenary sessions will be in ESB Room 2012
- You will find a campus map at the end of the program.

Q: Will the program change? Program changes and updates will be announced at each session.

Q: When should I wear my badge? Please wear your name badges at all times on site so that PIMS Staff recognize you as a guest.

Q: Where can I go for help on site? If you need assistance or have a question during the conference, please connect with the conference organizers or with PIMS Staff.

Q: Where can I get refreshments and meals? For snacks or quick meals, please view the list of UBC eateries attached online at <http://www.food.ubc.ca/feed-me/>. Coffee breaks are provided each day of the workshop and a hosted lunch will be provided on Monday July 24.

Q: Where can I get a cab to pick me up from the Venue? You can call Yellow Cab (604-681-1111) and request to be picked up at the intersection of West Mall and Bio. Sciences Road. Use the south entrance and walk straight down to the intersection.

Q: How can I get around?

- UBC Map link: [Here](#)
- Public Transit: Feel free to search and plan your public transport rides by visiting <https://www.translink.ca/> where directions, ticket costs and bus schedules are indicated.
- Parking at UBC: <https://parking.ubc.ca/hourly-rates>

Q: What emergency numbers should I know?

- Campus security (604-822-2222);
- General Emergencies (911);
- UBC hospital (604-822-7121).

Monday July 24, 2017

8:30am - 8:45am	Registration and Check in (ESB Atrium)
8:50am - 9:00am	Opening remarks and announcements from PIMS and the Event Organizers.
9:00am - 10:00am	Jeff Cheeger, New York University <i>Piecewise constant curvature metrics.</i>
10:00am - 10:30am	Coffee break
10:30am - 11:30am	John Lott, University of California, Berkeley <i>Collapsing in the Einstein flow</i>
11:30am - 12:30pm	Jeff Viaclovsky, University of Wisconsin-Madison <i>Scalar-flat Kahler ALE metrics</i>
12:30pm - 2:00pm	Hosted Lunch: Magma Cafe; Please show your name tag at this break.
2:00pm - 3:00pm	Natasa Sesum, Rutgers University <i>Ancient solutions to the geometric flows</i>
3:00pm - 3:30pm	Coffee break
3:30pm - 4:30pm	Jiaping Wang, Minnesota University <i>Geometry of shrinking Ricci solitons</i>

Tuesday July 25, 2017

9:00am - 10:00am	Jean-Michel Bismut, University of Paris-Sud <i>Hypoelliptic Laplacian, Bott-Chern classes and the trace formula</i>
10:00am - 10:30am	Coffee break
10:30am - 11:30am	Weiping Zhang, Nankai University <i>The Chern conjecture for affine manifolds</i>
11:30am - 12:30pm	Tristan Riviere, ETH Zurich <i>Minmax Hierarchies and Minimal Surfaces in Manifolds</i>
12:30pm - 2:00pm	Lunch- Own (See list of Campus eateries online at http://www.food.ubc.ca/feed-me/)
2:00pm - 3:00pm	Bruce Kleiner, New York University <i>Uniqueness of weak solutions to the Ricci flow I</i>
3:00pm - 3:30pm	Coffee break
3:30pm - 4:30pm	Richard Bamler, University of California, Berkeley <i>Uniqueness of weak solutions to the Ricci flow II</i>

Wednesday July 26, 2017

9:00am - 10:00am	Michael Struwe, ETH Zurich <i>Bubbling in the prescribed curvature flow on the torus</i>
10:00am - 10:30am	Coffee break
10:30am - 11:30am	Brian White, Stanford University <i>A Dichotomy Theorem for Minimal Surfaces</i>
11:30am - 12:30pm	Yanyan Li, Rutgers University <i>Existence and uniqueness of Green's function to a nonlinear Yamabe problem</i>
12:30pm	Free Afternoon

Thursday July 27, 2017

9:00am - 10:00am	Werner Ballmann, Bonn University <i>Small eigenvalues and analytic systole of surfaces</i>
10:00am - 10:30am	Coffee break
10:30am - 11:30am	Slawomir Kolodziej, Jagiellonian University <i>Monge-Ampere and Hessian equations on compact Hermitian manifolds</i>
11:30am - 12:30pm	Aaron Naber, Northwestern University <i>Structure theory for non-collapsed spaces with lower Ricci curvature bounds.</i>
12:30pm - 2:00pm	Lunch- Own (See list of Campus eateries online at http://www.food.ubc.ca/feed-me/)
2:00pm - 3:00pm	Sean Paul, University of Wisconsin-Madison <i>Stable Pairs and coercive estimates for the Mabuchi functional</i>
3:00pm - 3:30pm	Coffee break
3:30pm - 4:30pm	Jeff Streets, University of California, Irvine <i>Generalized Kahler Ricci flow and a generalized Calabi conjecture</i>
6:00pm	Conference dinner at UBC Golf Club 5185 University Blvd (15 min walk or a 3 min bus ride on the #4 or #14 tram buses)

Friday July 28, 2017

9:00am - 10:00am	Akito Futaki <i>Volume minimization and obstructions to geometric problems</i>
10:00am - 10:30am	Coffee break
10:30am - 11:30am	Yanir Rubinstein, University of Maryland <i>Real/complex Legendre/interpolation</i>
11:30am - 12:30pm	Yu Yuan, University of Washington <i>Asymptotic behavior of solutions to Hessian equations over exterior domains</i>
12:30pm - 12:45pm	Wrap up and Thank-you

Notes

Speaker Titles and Abstracts

Richard Bamler, University of California, Berkeley

Uniqueness of weak solutions to the Ricci flow II

In his resolution of the Poincaré and Geometrization Conjectures, Perelman constructed Ricci flows in which singularities are removed by a surgery process. His construction depended on various auxiliary parameters, such as the scale at which surgeries are performed. At the same time, Perelman conjectured that there must be a canonical flow that automatically “flows through its surgeries”, at an infinitesimal scale.

Recently, Kleiner and Lott constructed so-called Ricci flow space-times, which exhibit this desired behavior. In this talk, I will first review their construction. I will then present recent work of Bruce Kleiner and myself, in which we show that these Ricci flow space-times are in fact unique and fully determined by their initial data. Therefore, these flows can be viewed as “canonical”, hence confirming Perelman’s Conjecture. I will also discuss further applications of this uniqueness statement.

Werner Ballmann, University of Bonn

Small eigenvalues and analytic systole of surfaces

Eigenvalues of complete Riemannian manifolds are called small if they lie below the bottom of the spectrum of their respective universal covering spaces. For example, eigenvalues of hyperbolic surfaces below a quarter are small. In the talk, I will discuss joint work with Henrik Matthiesen and Sugata Mondal on small eigenvalues of Riemannian surfaces and a new, related invariant which we call the analytic systole of the surfaces below a quarter are small. In the talk, I will discuss joint work with Henrik Mattiesen and Sugata Mondal on small eigenvalues of Riemannian surfaces and a new, related invariant which we call the analytic systole of the surface.

Jean-Michel Bismut, University of Paris-Sud

Hypoelliptic Laplacian, Bott-Chern classes and the trace formula

If M is a compact Riemannian manifold, the hypoelliptic Laplacian is a family of operators acting on the total space of the tangent bundle, that interpolates in the proper sense between the standard Laplacian and the geodesic flow. This deformation preserves certain spectral quantities like the analytic torsion. In the case of locally symmetric spaces, the full spectrum of the original Laplacian is preserved by the deformation. In the talk, I will illustrate two applications of the hypoelliptic Laplacian, in the proof of a theorem of Riemann-Roch-Grothendieck in Bott-Chern cohomology, and also in the context of Selberg trace formula.

Jeff Cheeger, New York University

Piecewise constant curvature metrics.

We will discuss piecewise constant curvature metrics and some of their relations to analysis, geometry and topology. This will include some older results and some recent work in progress.

Akito Futaki

Volume minimization and obstructions to geometric problems

We discuss on the volume minimization principle for conformally Kaehler-Einstein-Maxwell metrics in the similar spirit as the Kaehler-Ricci solitons and Sasaki-Einstein metrics. This talk is based on a joint work with Hajime Ono.

Bruce Kleiner, New York University

Uniqueness of weak solutions to the Ricci flow I

In his resolution of the Poincaré and Geometrization Conjectures, Perelman constructed Ricci flows in which singularities are removed by a surgery process. His construction depended on various auxiliary parameters, such as the scale at which surgeries are performed. At the same time, Perelman conjectured that his Ricci flow with surgery converges to a canonical Ricci flow through singularities when the surgery parameters are sent to zero.

A few years ago, John Lott and I introduced singular Ricci flows, which are a kind of generalized solution to Ricci flow in dimension three. We proved the existence of a singular Ricci starting from a prescribed compact Riemannian 3-manifold M . Recently Richard Bamler and I have proven that 3d Ricci flow has a strong stability property that implies Perelman's convergence conjecture, and that the singular Ricci flow with initial condition M is unique and depends continuously on M .

Richard and I will give two lectures on this topic. The first lecture will cover the background and setup, as well as the statements of the main results. The second talk will be more focused on highlights of the proof.

Slawomir Kolodziej, Jagiellonian University

Monge-Ampère and Hessian equations on compact Hermitian manifolds

Let (X, ω) be a compact Hermitian manifold of complex dimension n . I shall discuss some recent results concerning weak solutions to the complex Monge-Ampère equation and, the more general, complex Hessian equation:

$(\omega + dd^c \phi)^k \wedge \omega^{n-k} = c f \omega^n$, (where $0 \leq f$ belongs to some L^p space) including existence, stability and Hölder continuity. They were obtained in collaboration with Slawomir Dinew and Cuong Ngoc Nguyen. I would like to highlight interesting open problems.

Yanyan Li, Rutgers University

Existence and uniqueness of Green's function to a nonlinear Yamabe problem

For a given finite subset S of a compact Riemannian manifold (M, g) whose Schouten curvature tensor belongs to a given cone, we prove the existence and uniqueness of a conformal metric on $M \setminus S$ such that each point of S corresponds to an asymptotically flat end and that the Schouten tensor of the new conformal metric belongs to the boundary of the given cone. This is a joint work with Luc Nguyen.

John Lott, University of California, Berkeley

Collapsing in the Einstein flow

We look at the future behavior of expanding cosmological models, i.e. vacuum spacetimes with a foliation by compact spatial hypersurfaces of constant negative mean curvature. Under scale-invariant curvature assumptions (type III), we show that there are arbitrarily large future time intervals that are modelled by a flat spacetime or a Kasner spacetime. We characterize what happens when the scale-invariant curvature assumptions fail (type II).

Aaron Naber, Northwestern University

Structure theory for non-collapsed spaces with lower Ricci curvature bounds.

Let $(M_i, g_i) \rightarrow (X, d)$ be a Gromov-Hausdorff limit of spaces with $Rc \geq -(n-1)$ and $\text{Vol}(B_1) > \nu > 0$. It is classically understood one can stratify $X = S^0(X) \cup \dots \cup S^{n-2}(X) \cup X$ such that $\dim S^k \leq k$. The first main result of this talk is that S^k is k -rectifiable. We will see this is sharp,

as we will discuss examples such that $\text{Sing}(X) = S^k$ is both k -rectifiable and a k -cantor set. One can prove finite measure results for the quantitative stratifications. Applications of the structure results include proving X is a manifold away from a $n-2$ rectifiable subset of finite $n-2$ measure, showing that the tangent cones of X are unique away from a set of $n-2$ measure zero, and giving a new proof of the $n-4$ finiteness conjecture for limits with bounded Ricci. The structure results are joint with Cheeger/Jiang and the examples are joint with Li.

Sean Paul, University of Wisconsin-Madison

Stable Pairs and coercive estimates for the Mabuchi functional

Let X be a linearly normal submanifold of a projective space. Then the Mabuchi energy is proper along the Bergman metrics (in the sense of G. Tian) if and only if X is stable (in the sense of S. Paul)

Tristan Riviere, ETH Zurich

Minmax Hierarchies and Minimal Surfaces in Manifolds

We introduce a general scheme that permits to generate successive min-max problems for producing critical points of higher and higher indices to Palais-Smale Functionals in Banach manifolds. We call the resulting tree of minmax problems a minmax hierarchy. Using the viscosity approach to the minmax theory of minimal surfaces that we introduced in a series of recent works, we shall explain how this scheme can be deformed for producing smooth minimal surfaces of strictly increasing area in arbitrary codimension. We shall implement this scheme to the case of the 3-dimensional sphere. In particular we are giving a min-max characterization of the Clifford Torus and conjecture what are the next minimal surfaces to come in the S^3 hierarchy.

Yanir Rubinstein, University of Maryland

Real/complex Legendre/interpolation

Legendre duality is prominent in mathematics, physics, and elsewhere. In recent joint work with Berndtsson, Cordero-Erausquin, and Klartag, we introduce a complex analogue of the classical Legendre transform. This turns out to have ties to several foundational works in interpolation theory going back to Calderon, Coifman, Cwikel, Rochberg, Sagher, and Weiss, as well as in complex analysis/geometry going back to Alexander--Wermer, Slodkowski, Moriyon, Lempert, Mabuchi, Semmes, and Donaldson.

Natasa Sesum, Rutgers University

Ancient solutions to the geometric flows

We will discuss classification results on ancient solutions in geometric flows, such as the mean curvature flow, the Yamabe flow and the Ricci flow. We will also present a recent result with Angenent and Daskolopoulos on classification of ancient, noncollapsed closed solutions to the mean curvature flow.

Jeffrey D. Streets, University of California, Irvine

Generalized Kahler Ricci flow and a generalized Calabi conjecture

Generalized Kahler geometry is a natural extension of Kahler geometry with roots in mathematical physics, and is a particularly rich instance of Hitchin's program of 'generalized geometries.' In this talk I will discuss an extension of Kahler-Ricci flow to this setting. I will formulate a natural Calabi-Yau type conjecture based on Hitchin/Gualtieri's definition of generalized Calabi-Yau equations, then

introduce the flow as a tool for resolving this conjecture. The main result is a global existence and convergence result for the flow which yields a partial resolution, and which classifies generalized Kahler structures on hyperKahler backgrounds.

Michael Struwe, ETH Zurich

Bubbling in the prescribed curvature flow on the torus

By a classical result of Kazdan-Warner, for any smooth sign-changing function f with negative mean on the torus there exists a conformal metric of Gauss curvature f , which can be obtained from a minimizer of Dirichlet's integral in a suitable class of functions. As shown by Galimberti, following our joint work with Borer on the higher-genus case, these minimizers exhibit "bubbling" in a certain limit regime. Here we revisit Galimberti's result and prove that analogous "bubbling" occurs in the prescribed curvature flow.

Jeff Viaclovsky, University of Wisconsin-Madison

Scalar-flat Kahler ALE metrics

I will discuss the local structure of the moduli space of scalar-flat Kahler asymptotically locally Euclidean metrics, compactness theorems, and some existence results.

Jiaping Wang, University of Minnesota

Geometry of shrinking Ricci solitons

Since its introduction by Hamilton about thirty-five years ago, Ricci flow has led to spectacular successes including the resolution of the Poincare conjecture for three manifolds and the classification of quarter pinched Riemannian manifolds. Ricci solitons, as self-similar solutions to Ricci flow, play an important role in understanding singularity formation and long time dynamics of the flow. The talk will focus on the so-called shrinking solitons. We intend to review their classification in dimension two and three, and explain some recent progress made jointly with Ovidiu Munteanu concerning their geometry in dimension four.

Brian White, Stanford University

A Dichotomy Theorem for Minimal Surfaces

I will discuss a surprising dichotomy for classical minimal surfaces that gives new insights into the Colding-Minicozzi theory.

Yu Yuan, University of Washington

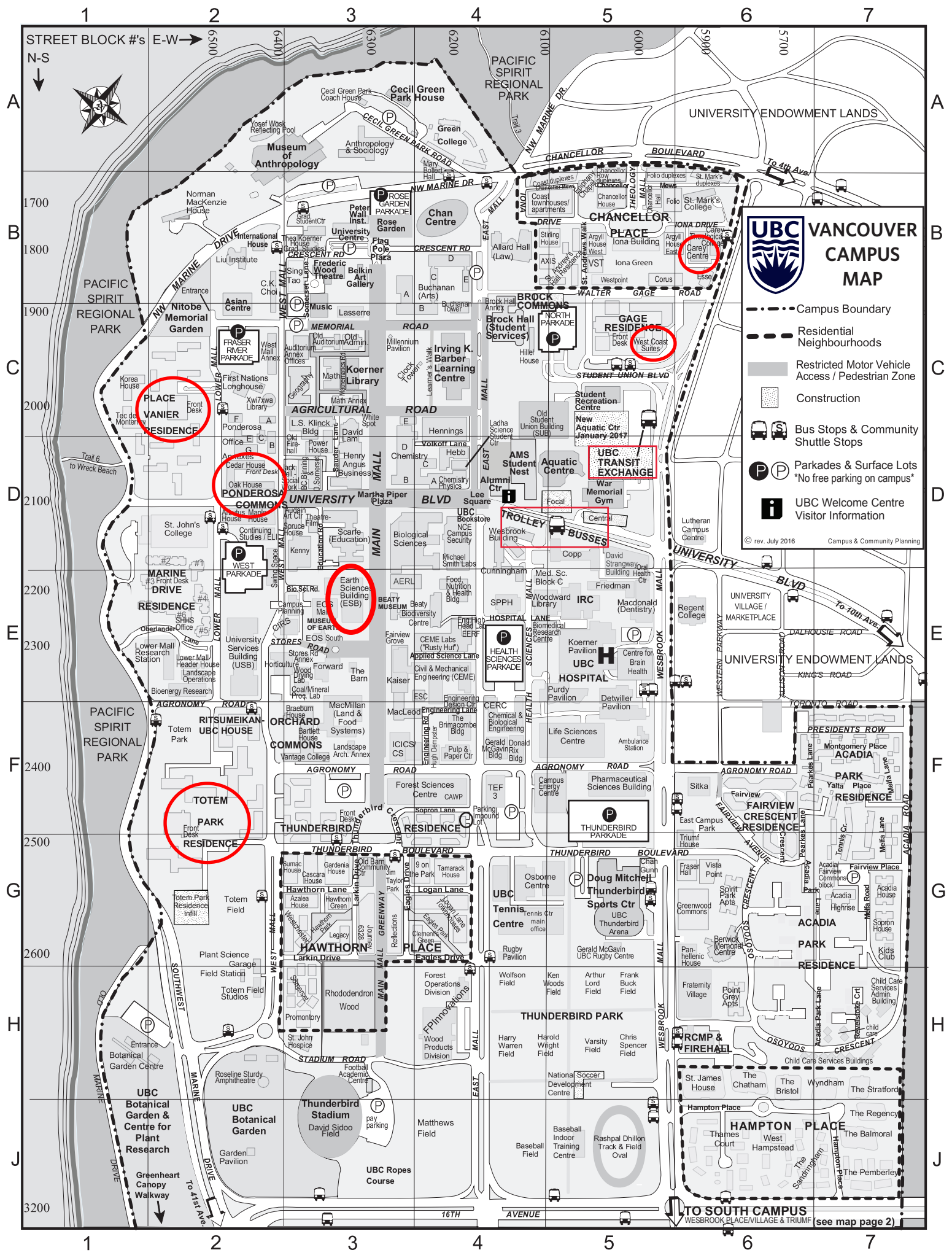
Asymptotic behavior of solutions to Hessian equations over exterior domains

We present a unified approach to quadratic asymptote of solutions to a class of fully nonlinear elliptic equations over exterior domains, including Monge-Ampere equations (previously known), special Lagrangian equations, quadratic Hessian equations, and inverse harmonic Hessian equations. This is joint work with Dongsheng Li and Zhisu Li.

Weiping Zhang, Nankai University

The Chern conjecture for affine manifolds

We present a proof of the Chern conjecture that the Euler characteristic of a closed affine manifold is zero. This is a joint work with Huitao Feng.



UBC VANCOUVER CAMPUS MAP

- Campus Boundary
- Residential Neighbourhoods
- Restricted Motor Vehicle Access / Pedestrian Zone
- Construction
- Bus Stops & Community Shuttle Stops
- Parkades & Surface Lots
No free parking on campus
- UBC Welcome Centre Visitor Information

© rev. July 2016 Campus & Community Planning

TO SOUTH CAMPUS
WESBROOK PLACE VILLAGE & TRIUMF (see map page 2)

Map Directory

Site or Building Name & Address	Grid
Abdul Ladha Science Student Ctr, 2055 East Mall.....	D4
Acadia/Fairview Commonsblock & Front Desk, 2707 Tennis Cres.....	G7
Acadia House, 2700-2720 Acadia Rd.....	G7
Acadia Park Residence (Student Family Housing).....	F/H-6/7
Acadia Park Highrise, 2725 Melfa Rd.....	G7
Allard Hall [Faculty of Law], 1822 East Mall.....	B4
Alumni Centre (Robert H. Lee), 6163 University Blvd.....	D4
AMS Student Nest (new student union building), 6133 University Blvd.....	D4
Anthropology & Sociology (ANSOC) Bldg, 6303 NW Marine Dr.....	A3
Aquatic Centre (New - opening Jan. 2017), 6080 Student Union Blvd.....	C5
Aquatic Centre (Old), 6121 University Blvd.....	D5
Aquatic Ecosystems Research Lab (AERL), 2202 Main Mall.....	E3
Asian Centre, 1871 West Mall.....	B2
Audain Art Centre (in Ponderosa Commons), 6398 University Blvd.....	D3
Auditorium Annex Offices A & B, 1924 West Mall.....	C3
Barn ("Owl" child care), 2323 Main Mall.....	E3
Baseball Indoor Training Centre, 3085 West Mall.....	J5
B.C. Binning Studios, 6373 University Blvd.....	D3
Beatty Biodiversity Centre & Museum, 2212 Main Mall.....	E3/4
Belkin (Morris & Helen) Art Gallery, 1825 Main Mall.....	B3
Berwick Memorial Centre, 2765 Osoyoos Cres.....	G6
Bioenergy Research & Demonstration Facility (BRDF), 2337 Lower Mall.....	E2
Biological Sciences Bldg, 6270 University Blvd.....	D3
Biomedical Research Ctr, 2222 Health Sciences Mall.....	E4
Bollert (Mary) Hall, 6253 NW Marine Dr.....	A4
Bookstore, 6200 University Blvd.....	D4
Botanical Garden/Gatehouse, 6804 SW Marine Dr.....	H1
Botanical Garden Pavilion (enter at Gatehouse, 6804 SW Marine Dr).....	J2
Botan. Gard. Greenhouses/ Workshops, 3929 Wesbrook Mall.....	South Campus
Brimacombe Building, 2355 East Mall.....	F4
Brook Commons - Tallwood House (construction), 6088 Walter Gage Rd.....	B4
BROCK HALL: Student Services & Welcome Centre, 1874 East Mall.....	C4
Brook Hall Annex, 1874 East Mall.....	C4
Buchanan Building (Blocks A, B, C, D, & E) [Arts], 1866 Main Mall.....	B3/4
Buchanan Tower, 1873 East Mall.....	C4
Building Ops Nursery/Greenhouses, 6029 Nurseries Rd.....	South Campus
C.K. Choi Building for the Institute of Asian Research, 1855 West Mall.....	B2
Campus & Community Planning, 2210 West Mall.....	E3
Campus Energy Centre, 6130 Agronomy Rd.....	F5
Campus Security, 2133 East Mall.....	D4
Carey Centre / Theological College, 5920 Iona Drive/1815 Wesbrook Mall.....	B6
Cecil Green Park Coach House, 6323 Cecil Green Park Rd.....	A3
Cecil Green Park House, 6251 Cecil Green Park Rd.....	A3
Centre for Brain Health (Djavad Mowafaghian), 2215 Wesbrook Mall.....	E5
Centre for Comparative Medicine (CCM), 4145 Wesbrook Mall.....	South Campus
Chan Centre for the Performing Arts, 6265 Crescent Rd.....	B4
Chan Gunn Pavilion (new sports med. construction), 2553 Wesbrook Mall.....	G5
Chemical & Biological Engineering Bldg, 2360 East Mall.....	F4
Chemistry A Block - Chemistry Physics Building, 6221 University Blvd.....	D4
Chemistry B.C.D & E Blocks, 2036 Main Mall.....	D3
Child Care Services Administration Bldg, 2881 Acadia Rd.....	H7
Child Care Services Bldgs, Osoyoos Crescent and Revelstoke Crt.....	H7
CIRS (Centre for Interactive Research on Sustainability), 2260 West Mall.....	E3
Civil & Mechanical Engineering Bldg (CEME), 6250 Applied Science Lane.....	E4
Civil & Mechanical Eng. Labs ("Rusty Hut"), 2275 East Mall.....	E4
Coal & Mineral Processing Lab, 2332 West Mall.....	E3
Continuing Studies Bldg [English Language Institute], 2121 West Mall.....	D2
Copp (D.H.) Building, 2146 Health Sciences Mall.....	D5
Cunningham (George) Building, 2146 East Mall.....	E4
David Lam Learning Centre, 6326 Agricultural Rd.....	C3
David Lam Management Research Ctr, 2033 Main Mall.....	C3
David Strangway Building, 5950 University Blvd.....	D5
Donald Rix Building, 2389 Health Sciences Mall.....	F4
Doug Mitchell Thunderbird Sports Centre, 6066 Thunderbird Blvd.....	G5
Dorothy Somersel Studios, 6361 University Blvd.....	D3
Earth Sciences Building (ESB), 2207 Main Mall.....	E3
Earth & Ocean Sciences (EOS) - Main and South, 6339 Stores Rd.....	E3
Earthquake Engineering Research Facility (EERF), 2235 East Mall.....	E4
Engineering High Head Room Lab, 2225 East Mall.....	E4
Engineering Student Centre, 2335 Engineering Road.....	E4
English Language Institute (E.L.I.) — see <i>Continuing Studies Building</i>	
Environmental Services Facility, 6025 Nurseries Rd.....	South Campus
Fairview Crescent Residence, 2600-2804 Fairview Cres.....	F6
Fire Hall, 2992 Wesbrook Mall.....	H6
First Nations Longhouse, 1985 West Mall.....	C2
Flag Pole Plaza (Main Mall & Crescent Rd).....	B3
Food, Nutrition and Health Bldg, 2205 East Mall.....	E4
Forest Sciences Centre [Faculty of Forestry], 2424 Main Mall.....	F4
Forward (Frank) Building, 6350 Stores Rd.....	E3
FPIInnovations, 2601 & 2665 East Mall.....	H4
Fraser Hall, 2550 Wesbrook Mall.....	G6
Fraternity Village, 2880 Wesbrook Mall.....	H6
Frederic Wood Theatre, 6354 Crescent Rd.....	B3
Friedman Bldg, 2177 Wesbrook Mall.....	E5
Gage (Walter H.) Residence, 5959 Student Union Blvd.....	C5
Geography Building, 1984 West Mall.....	C3
Gerald McGavin Building, 2386 East Mall.....	F4
Gerald McGavin UBC Rugby Centre, 2765 Wesbrook Mall.....	G5
Graduate Student Centre — see <i>Thea Koerner House</i>	
Green College, 6201 Cecil Green Park Rd.....	A4
Hebb Building, 2045 East Mall.....	D4
Hennings Building, 6224 Agricultural Rd.....	C4
Henry Angus Building [Sauder School of Business], 2053 Main Mall.....	D3
Hillie House, 6145 Student Union Blvd.....	C4
Horticulture Building/Greenhouse, 6394 Stores Rd.....	E2/3

Site or Building Name & Address	Grid
Hugh Dempster Pavilion, 6245 Agronomy Rd.....	F4
ICICS/CS (Institute for Computing, Information & Cognitive Systems/Computer Science), 2366 Main Mall.....	F4
Instructional Resources Centre (IRC), 2194 Health Sciences Mall.....	E5
International House, 1783 West Mall.....	B2
In-Vessel Composting Facility, 6035 Nurseries Road.....	South Campus
Irving K. Barber Learning Centre, 1961 East Mall.....	C4
Jack Bell Building for the School of Social Work, 2080 West Mall.....	D3
Kaiser (Fred) Building [Faculty of Applied Science], 2332 Main Mall.....	E3
Kenny (Douglas T) Building, [Psychology] 2136 West Mall.....	D3
Kids Club, 2855 Acadia Rd.....	G7
Klinck (Leonard S.) Bldg, 6356 Agricultural Rd.....	C3
Koerner (Walter C.) Library, 1958 Main Mall.....	C3
Landscape Architecture Annex, 2371 Main Mall.....	F3
Lasserre (Frederic) Building, 6333 Memorial Rd.....	C3
Library Preservation Archives (PARC), 6049 Nurseries Rd.....	South Campus
Life Sciences Centre, 2350 Health Sciences Mall.....	F5
Liu Institute for Global Issues, 6476 NW Marine Dr.....	B2
Lower Mall Research Station, 2259 Lower Mall.....	E2
Macdonald (J.B.) Building [Dentistry], 2199 Wesbrook Mall.....	E5
MacLeod (Hector) Building, 2356 Main Mall.....	F3
MacMillan (H.R.) Bldg [Faculty of Land & Food Systems], 2357 Main Mall.....	F3
Marine Drive Residence (Front Desk in Bldg #3), 2205 Lower Mall.....	E2
Material Recovery Facility, 6055 Nurseries Rd.....	South Campus
Mathematics Annex, 1986 Mathematics Rd.....	C3
Mathematics Building, 1984 Mathematics Rd.....	C3
Medical Sciences Block C, 2176 Health Sc. Mall.....	E4
Michael Smith Laboratories, 2185 East Mall.....	D4
Museum of Anthropology (MOA), 6393 NW Marine Dr.....	A2/3
Musik Building, 6361 Memorial Rd.....	B/C3
National Soccer Development Centre, 3065 Wesbrook Mall.....	H5
Networks of Ctrs of Excellence (NCE), 2125 East Mall.....	D4
Nitobe Memorial Garden, 1895 Lower Mall.....	B/C2
Nobel Biocare Oral Health Centre, 2151 Wesbrook Mall.....	E5
Norman MacKenzie House, 6565 NW Marine Dr.....	B2
NRC Institute for Fuel Cell Innovation, 4250 Wesbrook Mall.....	South Campus
Old Administration Building, 6328 Memorial Rd.....	C3
Old Auditorium, 6344 Memorial Rd.....	C3
Old Barn Community Centre, 6308 Thunderbird Blvd.....	G3
Old Firehall, 2038 West Mall.....	D3
Orchard Commons, 6363 Agronomy Rd.....	F3
Osborne (Robert F.) Centre/Gym, 6108 Thunderbird Blvd.....	G4
Pacific Museum of Earth (in EOS-Main), 6339 Stores Rd.....	E3
Panhellenic House, 2770 Wesbrook Mall.....	G6
Peter Wall Institute for Advanced Studies (PWIAS), 6331 Crescent Rd.....	B3
Pharmaceutical Sciences Building, 2405 Wesbrook Mall.....	F5
Place Vanier Residence, 1935 Lower Mall.....	C/D2
Plant Science Field Station & Garage, 2613 West Mall.....	H2
Point Grey Apartments, 2875 Osoyoos Cres.....	H6
Police (RCMP) & Fire Department, 2990/2992 Wesbrook Mall.....	H6
PONDEROSA COMMONS, University Blvd & West Mall.....	D2/3
Arbutus & Maple Houses, 6488 University Blvd.....	D2
Cedar House (Ponderosa Commons Front Desk), 2075 West Mall.....	D2
Oak House, 6445 University Blvd.....	D2
Spruce House, 2118 West Mall.....	D3

Site or Building Name & Address	Grid
Ponderosa Office Annexes: A, B, & C, 2011-2029 West Mall.....	C/D2
Ponderosa Office Annexes: E, F & G, 2008-2044 Lower Mall.....	C/D2
Power House, 2040 West Mall.....	D3
Pulp and Paper Centre, 2385 East Mall.....	F4
Ritsumeikan-UBC House, 6460 Agronomy Rd.....	F2
Rose Garden.....	B3
Rugby Pavilion, 2584 East Mall.....	G4
Scarfe (Neville) Building [Education], 2125 Main Mall.....	D3
School of Population & Public Health (SPPH), 2206 East Mall.....	E4
SERC (Staging Environmental Research Ctr), 6045 Nurseries Rd....	S. Campus
Sing Tao Building, 6388 Crescent Rd.....	B3
Sopron House, 2730 Acadia Rd.....	G7
South Campus Warehouse, 6116 Nurseries Rd.....	South Campus
Spirit Park Apartments, 2705-2725 Osoyoos Cresc.....	G8
St. Andrew's Hall/Residence, 6040 Iona Dr.....	B5
St. John Hospice, 6389 Stadium Road.....	H3
St. John's College, 2111 Lower Mall.....	D2
St. Mark's College, 5935 Iona Dr.....	B6
Stores Road Annex, 6368 Stores Rd.....	E3
Student Family Housing (Acadia Park Residence).....	F/H-6/7
Student Recreation Centre, 6000 Student Union Blvd.....	C5
Student Union Bldg (old) (Old SUB), 6138 Student Union Blvd.....	C4
TEF3 (Technology Enterprise Facility 3), 6190 Agronomy Rd.....	F4
Thea Koerner House [Faculty of Graduate Studies], 6371 Crescent Rd.....	B3
Theatre-Film Production Bldg, 6358 University Blvd.....	D3
Thunderbird Residence, 6335 Thunderbird Cresc.....	F3/4
Thunderbird Arena (in Doug Mitchell Centre), 2555 Wesbrook Mall.....	G5
Thunderbird Stadium, 6288 Stadium Rd.....	J3
Totem Field Studios, 2613 West Mall.....	H2
Totem Park Residence, 2525 West Mall.....	F/G2
TRIUMF, 4004 Wesbrook Mall.....	South Campus
Triumph House (TRIUMF Visitors' Residence), 5835 Thunderbird Blvd.....	G6
UBC Bookstore, 6200 University Blvd.....	D4
UBC Farm, 3461 Ross Drive.....	South Campus
UBC Football Academic Centre, 6298 Stadium Rd.....	H3
UBC Hospital, 2211 Wesbrook Mall.....	E5
UBC Parking Impound Lot, 2451 East Mall.....	F4
UBC Tennis Centre, 6160 Thunderbird Blvd.....	G4
University Centre (Leon & Thea Koerner), 6331 Crescent Rd.....	B3
University Services Building (USB), 2329 West Mall.....	E2
Vancouver School of Theology (VST), 6015 Walter Gage Rd.....	B5
Vantage College (in Orchard Commons, Fall 2016), 6363 Agronomy Rd.....	F3
War Memorial Gymnasium, 6081 University Blvd.....	D5
Wayne & William White Engineering Design Ctr, 2345 East Mall.....	E4
Wesbrook Bldg, 6174 University Blvd.....	D4
Wesbrook Community Centre, 5998 Berton Ave.....	South Campus
Wesbrook Village commercial centre.....	South Campus
West Mall Annex, 1933 West Mall.....	C2
West Mall Swing Space Bldg, 2175 West Mall.....	D2
Wood Drying Laboratory, 2324 West Mall.....	E3
Woodward IRC, 2194 Health Sciences Mall.....	E4/5
Woodward Library, 2198 Health Sciences Mall.....	E4/5

