

MAXWELL C. DAY

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EDUCATION

2011 - Current

University of Manitoba:

Clayton H. Riddell Faculty of Environment, Earth and Resources

- B.Sc. First Class Honors 2015 – Geological Sciences
- Ph.D. Candidate (transfer from M.Sc. 2016) – Geological Sciences
Mineralogy/Crystallography

Relevant Courses:

Graduate Courses

- Advanced Crystal Chemistry, Advanced Mineralogy, Advanced Crystallography, Topological Crystal Chemistry, Atoms in Crystals

Undergraduate Courses

- Optics and Spectroscopy, Geochemistry, Igneous and Metamorphic Petrology, Sedimentary Petrology and Stratigraphy, Sedimentology, Structural Geology, Mineral Deposits, Structure and Metamorphism, Advanced Field Mapping, Mineral Exploration Techniques, Geophysics

SKILLS

Personal:

- Works well with others, diplomatic, positive and always friendly.
- Applies logic to solve problems and get the job done.
- Works to resolve differences and maintain productive work relationships.
- Can bring together all aspects of a project, such as resources and planning that are needed to complete it efficiently, on time and on budget.
- Ability to adapt quickly to change while keeping focused on project goals.
- Ability to think outside the box and develop unique approaches and strategies.

Software: ATOMS v6.4, Shelxtl 2014, PubliCIF, FORMULA, MDI Jade 9, PeakFit, Fityk, SigmaPlot, The Geochemist's Workbench 10, IGPET programs, ArcGIS, MATLAB R2019b, Adobe Illustrator.

EXPERIENCE

Mineralogy/Crystallography Laboratory - University of Manitoba

Research Assistant

Summer 2014 - Current

- Structural analysis and classification of over 450 inosilicate minerals.
- Analysis of structural and chemical variances within specific groups of silicate minerals.
- Assisted in experimental analysis and determination of multiple new minerals.
- Managed the FTIR spectroscopic instrumentation and collected and interpreted data for many projects involving minerals, polymers, sediments and synthetic compounds.
- Experience with analytical instrumentation including (SC)XRD, EMPA, SEM, TEM, SIMS, FTIR spectroscopy and ICP-OES.

Teaching Assistant - Geological Sciences - University of Manitoba

Igneous Petrogenesis, third year undergraduate course

2015 - Current

- Supported students in gaining a clear understanding of advanced igneous processes.
- Lectured on various contrasting geological interpretations to facilitate an understanding of petrogenetic processes.
- Taught students how to correlate their interpretations with petrographic and geochemical evidence.
- Educated students on the academic and economic implications of igneous complexes throughout Canada.

Yorday Design - Company Co-founder

2012 - Current

- Product development and marketing.
- Business development and sales.
- Financial management.

Sears - Merchandise Flow Team

2012 - 2014

- Logistics/shipment organization.
- Processing shipments and stocking merchandise.

HG Carpentry and Joinery - Assistant Carpenter

Summer 2013

ScotiaBank - Teller/Sales

Summer 2011

- Coordination of international wire transfers.
- Sales of personal financial products.

VOLUNTEER WORK

Geological Sciences Graduate Student Association (GSGSA)

Vice-President 2018 - Current
President 2016 - 2017

Western Inter-University Geology Conference (WIUGC) 2015 - Planning Committee

Social Coordinator and Logistics Manager 2015

University of Manitoba Geology Club Council

Social Chair/Communications Liaison 2014

MEMBERSHIPS

- Mineralogical Association of Canada (MAC)
- Mineralogical Society of America (MSA)
- American Crystallographic Association (ACA)
- Association of Professional Engineers and Geoscientists of Manitoba (APEGM)
- Society of Economic Geologists (SEG)
- Canadian Society of Exploration Geophysicists (CSEG)
- Canadian Institute of Mining, Metallurgy and Petroleum (CIM)
- Prospectors and Developers Association of Canada (PDAC)
- University of Manitoba Geological Sciences Graduate Student Association (GSGSA)

ACTIVITIES

Goldschmidt Conference 2019
Barcelona, Spain – August 18-23

American Crystallographic Association Meeting 2018
Toronto, Canada - July 20-24

PDAC Convention 2015

WIUGC Convention 2014

Manitoba Mining and Minerals Convention 2012 – 2014

AWARDS & SCHOLARSHIPS

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| Rita Wadien Memorial Scholarship | 2017, 2019 |
| ACA Margaret C. Etter Student Lecturer Award | 2018 |
| Clarence Bogardus Sharpe Memorial Scholarship | 2018 |
| C.H.R Faculty Graduate Entrance Scholarship | 2016, 2017 |
| University of Manitoba Graduate Fellowship (UMGF) | 2016 - Current |
| Mark G. Smerchanski Memorial Prize | 2016 |
| Sally and Keith Caldwell Teaching Assistantship | 2016 |
| NSERC Undergraduate Student Research Award (URSA) | 2014 – 2015 |

REFERENCES

Dr. Frank Hawthorne

Crystallography and Mineralogy
University of Manitoba
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Dr. Alfredo Camacho

Structural Geology
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Dr. Elena Sokolova

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