

# The Prairie Arborist

The Official Publication of the ISA Prairie Chapter Issue 3 2022



# FROM THE PRESIDENT



Our return to the Tree Climbing Competition, held this year in Regina, SK was a fantastic success!

Congratulations to our Champions, Jordyn Dyck and Jesse Antonation, who will represent the Prairie Chapter at the International Tree Climbing Competition next

year. We already know that this event doesn't run unless we have willing volunteers, but planning for this event starts far in advance and is a success because of people like Keith Anderson, Derek Barr, Matt & Tasha Vinet, Charlene Scott, Bonnie Fermanuik, Carla Antonation, and the team at Wascana Park. Thank you!!

This event saw a large number of competitors in their inaugural competition. I believe approximately half of our 29 climbers were first-time competitors. Some had been in the industry for many years and some were new to climbing. It's encouraging for new Arborists to see and understand that you don't have to be a veteran climber to compete. It's a learning environment, with expertise and encouragement shared amongst all competitors.

An important change for our Prairie Chapter is the change on the Prairie Chapter Board. Unfortunately, Tim Yeaman from City of Prince Albert resigned his position as our Director for Saskatchewan. We wish him well, and look forward to seeing him at future events for the Prairie Chapter.

In line with policy that addresses Board position vacancies, a motion was made to appoint Derek Barr, as our interim Director for Saskatchewan. Derek is the Supervisor of Forestry & Pest Control for Government of Saskatchewan in Wascana Centre Park in Regina. He was also our local Tree Climbing Competition Chair this year and our past Director for SK. Derek has accepted and will join us for the remainder of this term (until Conference 2023). Derek's contact information is in this newsletter and will be on the website shortly.

Now, as Autumn rolls in, the board is rolling full steam into Conference preparation in St. Albert, Alberta. Keith has sent out several emails for registration and we already have a full roster of speakers and tradeshow participants. We look forward to seeing everyone there after too long of a hiatus! This conference, like the competition, requires willing volunteers. If you would like to help out, please feel free to contact Keith or myself for information. See you in October!



### Review a book for The Prairie Arborist!

Have you read a great book about trees lately? Did you find a book that you would love to share with other Arborists? So much of our education and reading is on a computer screen these days, so I'm asking people to submit a book review to the Prairie Arborist Newsletter from a book you've read; a book made

from reliable, renewable trees! Non-fiction, fiction, textbook, pamphlet, passage, poem...anything that has to do with our industry in arboriculture and horticulture. Can't wait to see what you come up with!

#### LEARNING THE TREES

- Howard Nemerov (1920-91) Pg. 223-224 of *Poems about Trees* Edited by Harry Thomas

Before you can learn the trees, you have to learn The language of the trees. That's done indoors, Out of a book, which now you think of it Is one of the transformations of a tree.

The words themselves area a delight to learn, You might be in a foreign land of terms Like samara, capsule, drupe, legume and pome, Where bark is papery, plated, warty or smooth.

But best of all are the words that shape the leaves -Orbicular, cordate, cleft and reniform -And their venation-palmate and parallel -And tips – acute, truncate, auriculate.

Sufficiently provided, you may now Go forth to the forests and the shady streets To see how the chaos of experience Answers to catalogue and category.

Confusedly. The leaves of a single tree May differ among themselves more than they do From other species, so you have to find, All blandly says the book, "an average leaf."

Example, the catalpa in the book Sprays out its leaves in whorls of three Around the stem; the one in front of you But rarely does, or somewhat, or almost;

# Wassup? News You Can Use

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(Continued from page 2)

#### LEARNING THE TREES

Maybe it's not catalpa? Dreadful doubt. It may be weeks before you see an elm Fanlike in form, a spruce that pyramids, A sweetgum spiring up in steeple shape.

Still, *pedetemtim* as Lucretius says, Little by little, you do start to learn; And learn as well, maybe, what language does And how it does it, cutting across the world

Not always at the joints, competing with Experience while cooperating with Experience, and keeping an obstinate Intransigence, uncanny, of its own.

Think finally about the secret will Pretending obedience to Nature, but Invidiously distinguishing everywhere, Dividing up the world to conquer it,

And think also how funny knowledge is: You may succeed in learning many trees And calling off their names as you go by, But their comprehensive silence stays the same.

NEW



Save the Date

#### **Certification Exam**

There is a paper based exam planned for Sunday October 16 just prior to the conference in St Albert

The last day to register for this exam is September 29.

Register now and avoid disappointment

Apply for eligibility here: https://www.isa-arbor.com/Credentials/Apply-Now/Apply-for-Eligibility

Enroll to write the exam here: https://www.isa-arbor.com/Credentials/Apply-Now/Enroll-to-Take-Exam



Save the Date

The Prairie Chapter is planning a live Conference to be held in St. Albert, AB October 17 & 18 2022

Don't miss the

Managing Growth, Limiting Liability Educational Conference and Tradeshow

Up to 12 CEU's will be available

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www.isaprairie.com

See registration form on page 14



Save the Date

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Did you know that you can now renew your TRAQ designation on line? Its true.

You can register with any Chapter that is hosting an online TRAQ renewal.

For upcoming TRAQ renewals go here:

https://www.isa-arbor.com/events/eventscalendar/ index?category=ISA+Qualification%20Renewal

For more information please call the Prairie Chapter office at 866-550-7464

# Managing Growth/Limiting Liability Conference

The conference is less than one month away and it's coming together really well. Big Shout Out to our continuous sponsor, Davey Tree, for stepping up once again to help ensure our conference will be a success.

Thanks also to Arbor-Tech Utility Services Ltd who is a Platinum sponsor once again this year. Our Industry partner STOPDED will be at the conference and a brand new sponsor CN Utility Consulting is also contributing to the success of the event. Be sure to stop by their Tradeshow booth to say hi and thanks. Here's a partial overview of some of the conference sessions.



The conference is going to open with CNUC's Randy Miller delivering the keynote "Leader or Boss" talk. Randy is one of the authors of ISA's new Utility Specialist Certification Study Guide.



Chelsi Abbott will be coming from the Davey Resource Group and will be speaking on Trees and Mental Health as well as Plant Nutrition and Fertilizer Deficiencies.

Also coming from the Davey Resource Group will be Chris

















Fields-Johnson. Chris will be delivering a talk entitled "All Mulches are not Created Equal: Contrasting organic and inorganic mulching options" and one entitled "Tree Conservation for Construction and mitigation of soil

and root damage".



Toso Bozic returns to discuss "Tree Diversity and Climate Change-The impact on growers"



Craig Southwell from Bartlett's office in Victoria BC will be speaking on arboricultural consulting as a career option in the industry.



Laurie Newsham the 2022 winner of the Alex Shigo Award for Excellence in Arboricultural Education, will be ushering us out with his talk entitled "People and Trees Growing Together"

Don't miss out on these and many more great presentations at the Prairie Chapter Conference in St Albert October 17 and 18, 2022.







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The Prairie Arborist

#### Issue 3 2022 2022 Prairie Chapter Tree Climbing Competition

The 2022 Prairie Chapter Tree Climbing Competition took place in Regina SK on the weekend of August 27 on the grounds of the Saskatchewan Legislature. This was the first TCC since the Lethbridge Comp in 2019, due to Covid cancellations.

29 climbers registered and that included 7 women in the lineup. The weather was hot and dry for the setup and the Saturday preliminary events, but conditions got a bit damp for the Masters on Sunday. The competition continued despite the rain and it actually stopped to let us pack up.

Women's Preliminaries 1st Jordvn Dvck 2nd Amy Heide **3rd Ruth Maendel** 4th Sara Lane 5th Laura Murdoch

Men's Preliminaries **1st Jesse Antonation** 2nd DJ Neustaeter **3rd Wyatt Chipps** 4th Joey Sullivan 5th Stuart Witt



There was a huge number of first time competitors this year. Congratulations to all of you for climbing. See you next year.

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	Kein	We're Back BA	BY!	AERIAL RESCUE	ASCENT EVENT	BELAYED SPEED	THROW Line	WORK CLIMB	
	RANK	COMPETITOR/PROVINCE	PRELIMINARY TOTA	L (50 MAX)			(30 MAX)		
	36	Blaine Jack /AB	RANK 31.50	7.00	21.06	49.71	9	9.25	
	24	Brian Cutrunbaum /sk	81.55	38.00	1.0	23.43	16	18.50	
	35	Brody Britton / MB	13 67.76	24.50	79.67	27.01	22	10.00	
	22	Caleb Medvedic /AB	14 57.78	30.00	64.57	29.48	9	9.75	
	23	Connor Fox / AB	9 94.84	28.00	14.84	19.79	21	20.50	6
1	37	Derek Harder / SK	15 57.30	26.50	48.75	29.95	22	DQ	-
	14	DJ Neustacter / AB	2 167.40	43.50	12.13	14.58	25	37.25	
	25	Edixon Ka Fung Wong / MB	20 21.75	9.00	T.a	T.Q	6	5.75	
	54	Hayden Minten / AB	17. 35.25	17.00	T.O.	46.04	17	1.25	Í.
	28	Jesse Antonation / MB	171.10	47.00	8.30	11.54	28	34.00	
	19	Joel Miller / AB	6 104.49	31.50	14.83	24.00	22	26.75	
	34	Joey Sullivan /AB	4 137.85	44.00	12.04	23.15	25	19.25	
	26	Mathew Beaudoin / SK	12 80.71	38.00	70.35	34.63	21	15.25	
	20	Peter LaRue / AB	8 96.28	34.00	11.93	27.72	20	18.00	
	32	Stuart Witt / AB	5 124.34	44.00	17.06	19.95	11	24.75	
	30	Tanner Filipchuk / AB	10 90.76	37.00	48.50	28.42	0	27.75	
	18	Terry Schellenberg / MB	7 103.27	32.50	15.29	18.04	21	24.00	L
	27	Travis Cayer / MB	21 5.75	DQ	T.O.	7.0.	0	5.75	
	29	Vlad Correa / AB	18 31.95	6.00	14.60	51.15	0	13.25	L
	31	Wyatt Chipps / AB	3 147.93	41.00	12.96	26.87	27	33.25	L
	33	Zachary Unwin /SK	16 38.74	22.00	T.o.	28.06	10	0.00	
									1
	6	Amy Heide / SR	2 75.07	28.00	24.14	41.38	5	12.50	1
	21	Jordyn Dyck / MB	127.05	35.50	17.71	99.22	20	22.75	ľ
	8.	Laura Murdoch / AB	5 57.96	26.50	24.50	177.19	10	9.25	1
	4	Laura Wilson / AB	25.75	15.50	81.21	74.04	8	0.25	1
	7	Lisa Sullivan /AB	7 20.25	14.00	39.77	112.10	1	3.25	1
	15	Kuth Maendel /MB	3 68.40	39.00	28.06	96.80	0	19.75	1
	5	Sara lane/AB	4 58.13	26.50	62.91	50.2	7	11.00	1
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- Elms, the Good, the Bad and the Ugly w/Todd West
- Tree Diversity and Climate Change in Urban Areas: Impact on Growers w/Toso Bozic
  - Meet the New Growing Medium Section of the Canadian Landscape Standard w/Jason Henry

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# 2022 Prairie Chapter Tree Climbing Competition The Prairie Arborist

(Continued from page 5)

Masters Challenge Women 1st Jordyn Dyck 2nd Ruth Maendel 3rd Amy Heide

Masters Challenge Men Ist Jesse Antonation 2nd Wyatt Chipps 3rd DJ Neustaeter 4th Stuart Witt

This event is a huge logistical nightmare with a lot of moving parts. A great big thanks goes out to our TCC Chair Matt Vinet and his amazing wife Tasha. Those two are the work horses that make this a reality.

Other folks on the committee doing all the behind the scenes work as well as on the ground and in the trees include: Charlene Scott, Toni Newsham, Bonnie Fermanuik, Derek Barr, and Keith Anderson. Thanks also to Dwayne Neustaeter, Yannick Portauw, and Gerard Fournier for the big roles they play.

Thanks to all the judges and volunteers who travelled from so far away to not only give of their time but, they all do it on their own dime. Their gas, their hotel rooms and their meals, none of it is reimbursed. They spend a whack of their own cash to volunteer for this event. Amazing contribution by each and everyone of you.

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## Issue 3 2022 2022 Prairie Chapter Tree Climbing Competition

#### (Continued from page 6)

Thanks to all the judges techs and timers. Robin Adair and the Speed Climb team, Laurie Newsham, team Newsham at the Aerial Rescue, Jean Mathieu Daoust and the Work Climb team, Derek Barr and the Throwline team, Charlene Scott and the Ascent Event team. The gear checkers: Carla Antonation, Dwayne Neustaeter, Jesse Antonation, Charlene Scott, Laurie Newsham. How about all the people, trucks and help we got from Green Drop. Unreal. I don't know all their names but, I got to work with Don Neault all weekend. That guy never stopped, he was every where helping where ever he could.

Thanks to you all. We couldn't do it without you.

Keith - More pics on the next page



# 2022 Prairie Chapter Tree Climbing Competition

Girili Girils

with the Masters Champs. Jesse Antonation and Jordyn I don't have a pic of the women top finishers



The Aerial Rescue Judges, Techs and Timers Team



The Ascent Event Judges, Techs and Timers Team

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Bonnie Fermauik has been feeding climbers a ce time out of mind. Thank

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#### Issue 3 2022

### Spruce cone and seed production - "Mast Year"



#### By Toso Bozic

White, black and Engelman spruce are native spruce trees in Alberta, and along with introduced spruce species (Blue, Norway, Serbian, and many other culti-

vars) are one of the most dominant coniferous species in natural as well as in urban areas. Spruce seeds are not just a source of future trees and forests but also a food source for numerous species of animals, including seed-eating birds, small mammals, and insects.

#### Mast Year

The year when there is high cone and seed production is also called "mast year" or "mast event". Spruce seed production is highly variable from year to year, and it depends on geographical location, age, environmental conditions, and genetics. White spruce produces good crop every 8-12 years but there are several exceptions when it produces crop every 2-6 years and in some ex-

treme cases every year (mostly due to constant stress that trees experience). Blue spruce is a good to prolific seed producer, producing full cone crops every 2 to 3 years. Black spruce usually produces cones at a younger age than white spruce and produces some seeds every year.

Under the normal natural forest conditions, spruce trees start producing viable seeds between 30-40 years

of age but in some urban areas trees, they may start producing seeds at age 4.

Large spruce trees growing in open areas tend to produce large cones with higher seed production. Dominant trees growing in natural forests also produce more cones than trees that are shaded. Seed cones are typically located in the upper one-third of the tree crown.

Climate conditions are the most influential on annual spruce seed production. Most of the research indicates that large seed crops are associated with drought ( warm, hot, and dry weather) from previous growing seasons ( 2021 drought in prairie provinces). In urban centers, spruce trees produce seeds more frequently due to other environmental stresses such as heat (urban heat island), poor soils, lack of moisture and pollution.

#### Cone and Seed production

The number of cones per tree is highly variable but can range from 100 to 2000 per tree. The total number of seeds per cone varies significantly among trees and ranges from 32 to 130 with approximately 500,000 seeds per kilogram.

However, high cone and seed production does not necessarily mean high seed viability. Seed viability is lower during warmer temperatures; while seed viability is higher when the seedfall year was both warm and wet.

#### Dispersal

Most of the spruce seeds fall in September while a small number of seeds are usually dispersed in August.



Initiation and pattern of seed dispersal depend on the weather with most of the cones opening during dry weather. Cool, wet, or snowy weather delays the onset of dispersal and causes cones to close after dispersal has begun.

Wind is a primarily dispersal method but the distance of flight for individual seeds was variable and depended on conditions at the time of dispersal. Water is also a

method of dispersal. Squirrels also disperse seeds ( they can cache up to 16,000 cones) as they cut and cache cones before the cones open, but seeds collected by squirrels are unlikely to contribute to regeneration because caches are not suitable seedbeds and seeds rapidly lose viability after 1 or 2 years.

The seeds are winged, small, lightweight and most of them fall within 2 tree heights from parent trees. In open areas, seeds have greater dispersal and in latedispersal period seeds may be blown over crusted snow and ice. In general, seeds that fall closer to the parent tree are more likely to be viable than seeds that are dispersed farther away. Most importantly, adequate seed

## Spruce cone and seed production - "Mast Year"

sources must be near suitable seedbeds during favorable weather conditions.

#### Seed Banking and Germination

White spruce does not have serotinous cones, and seeds do not persist in the soil. Soil seed banking is not

common because seeds do not remain viable in the soil for a long time. Spruce seeds may remain viable for about 1 year while the viability is dropping steadily after the seeds ripen. High viability generally occurs in mast years with high seed production. Seed that is clean and dried may remain viable for up to 10 years in storage.



#### Seedbeds

Seed grows best on well drained, moist, silty soils, but occurs on many soil types. Spruce can germinate on

mineral and moist soil, organic soil, rotten logs, and moss, however spruce seedlings establish best on mineral or thin organic soils that are disturbed by either fire or site floor preparation/disturbances. Urban

> areas with turf grass as well as leaf litter, make poor seedbeds because they dry out easily. The seedlings will tolerate acid soils of pH 4.5 but have a very low tolerance to soil salinity.

#### Conclusion

Cone and seed production of various spruce trees is variable and depends on environmental conditions as well as genetics. Overall seed viability is high during the mast year, but it rapidly declines within 1 to 2 years. Taking advantage of mast year seed production in-

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volves site preparation in the fall or early in the spring. This is the best way for successful natural spruce regeneration.



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The Prairie Arborist

## Emerald Ash Borer Branch Sampling

#### By: Shenae Borschneck

The City of Edmonton has recently begun a focused branch sampling program as an early detection method of emerald ash borer (EAB). This is in addition to existing detection programs such as visual inspections and baited traps. facilitate detection of EAB before signs and symptoms are pronounced, which can take two or more years after the arrival of EAB. Signs of EAB include D-shaped exit holes and S-shaped larval galleries that may be spotted through cracks in the bark. Symptoms of EAB include yellowing foliage, crown dieback, vertical cracks in the

EAB is a non-native pest that attacks both stressed and healthy ash trees. The EAB larvae kill the tree as they tunnel through the vascular system, cutting off the delivery of water and nutrients. EAB has already killed millions of ash trees in Eastern Canada and the United States.

Currently, there are no confirmed

cases of EAB in Alberta; however, with over 100,000 inventoried ash trees, EAB poses a significant threat to Edmonton's urban forest. To help protect Edmonton's ash trees, the City has begun a focused branch sampling program for EAB.

This is an early detection method that helps to detect EAB while densities of the pest are low. This will help to



Photo Credit: Debbie Miller USDA Forest Service, forestryimages.org

n dieback, vertical cracks in the bark, and shoots growing from the lower trunk.

Ash trees provide habitat for wildlife, reduce stormwater runoff, and sequester carbon. They also meaningfully enhance the livability and quality of life in neighbourhoods by cooling the streetscape, purifying the air we breathe, and creating a sense of wellbeing in the urban environment.

As arborists, we can all help to detect and prevent the spread of EAB, such as not importing ash stock from areas quarantined by the CFIA. For a detailed description of the branch sampling technique, please refer to the Canadian Forest Service Publication.

You can find it here: https://cfs.nrcan.gc.ca/publications?id=32127

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### Understanding Frameworks to Analyze Tree Benefits The Prairie Arborist



# Understanding Frameworks to Analyze Tree Benefits

The homeowner's majestic oak towers over the driveway, impeding the construction crew's 15-ton truck. What stops the home-

owner from simply removing the oak? Why, for that matter, do we keep the urban forest at all as development continues to change the urban landscape? The urban forest is a fitting example of the need to evaluate the benefits of green assets, especially in the context of global biodiversity conservation. However, there are various methods through which to interpret the benefits of urban forests.

I would suggest that there are two main frameworks that arborists and urban foresters should consider: the ecosystem services approach and the biocultural diversity concept.

#### **Ecosystem Services**

Introduced and popularized by the Millennium Ecosystem Service Assessment, the ecosystem services approach assesses four systems: cultural, provisioning, regulating, and supporting services. The ecosystem services approach is advantageous as it allows for evaluation of benefits which can be used to promote nature's preservation and continued growth. Accounting for these services is beneficial in determining the value that nature holds in a variety of aspects across human life. The urban forest is a good example of the practicality of the ecosystem services approach as the breadth of human activity and objectives in the urban forest yields many services, contrasted to examples like remote harvestfocused forest plots.

In the urban forest, cultural services are a commonly recognized benefit, perhaps the most apparent of which is the aesthetic value of vegetation. The rich fall foliage of *Acer tataricum* and exfoliating bark of *Acer griseum* are examples of the aesthetic benefit provided by nature. Recreationally, the urban forest provides an outdoor environment with diverse activities available. These cultural values are a forte of the urban forest, mirrored closely in broad-scale global conservation. Regulating services such as climate control and flood control provide major contributions to biodiversity conservation, which may not always be apparent. A major benefit of the conservation of vegetation is the absorption greenhouse gases and releases oxygen during photosynthesis. These climate regulating services can save municipalities millions. For example, a city in Australia planted 400,000 trees which are estimated to provide climate regulation services valued at US \$20 – 67 million over a five-year period (Brack, 2002). The large economic value of tree planting speaks in high favor to the benefits of increasing green space.

This economic evaluation can also be applied to supporting services. For example, the contribution of a bee colony to agriculture through pollination is approximately \$1 000 USD annually (TEEB, 2010). This quantifies the importance of bees in a biodiverse environment. Maintaining natural landscapes as habitat for bees will provide beneficial pollination for the agriculture industry. Pollination through bees is just one example of the value of supporting services.

Lastly, the provisioning services of the urban forest can include fruit and sap from trees, yielding sustenance for tree owners. Also included within provisioning services are the woody products, whether timber (ex. reclaimed timber harvested during Dutch elm disease removals) (Continued on page 13)

# Keep Alberta DED free

- Under the Alberta Agricultural Pests Act (APA) "Pest and Nuisance Control Regulation (PNCR)" the Dutch Elm Disease (DED) pathogens, smaller European elm bark beetle, and the native elm bark beetle are named declared pests.
- DED prevention/control measures for Alberta are enforceable under the APA and are found on the STOPDED website.
- Elm trees from a DED infected province cannot be shipped into Alberta.
- Elm Pruning Ban is April 1 -September 30 annually



Society to Prevent Dutch Elm Disease www.stopded.org 1-877-837-ELMS (3567) Issue 3 2022

### Understanding Frameworks to Analyze Tree Bene-

#### (Continued from page 12)

or sticks and branches used for holiday decorations. The ecosystem services approach remains a strong principle in the evaluation of an ecosystem; the ability to produce quantitative measurements cannot be understated. Through cultural, regulating, supporting, and provisioning services, we can create a better economic evaluation that realizes the contribution of natural services to human life. This approach acts advantageously in showing the economic benefit of promoting and maintaining conservation practices.

#### **Biocultural Diversity**

A fault of the ecosystem services approach, however, is that it centers itself on a unilateral flow of benefits from trees to humans. The quantification of ecosystem services also devalues the benefits of unquantifiable values, such as connectedness to the view of a city block. The utilitarian and unilateral focus of the ecosystem services approach is addressed in the biocultural diversity concept which recognizes the benefits that humans have on the ecosystem.

The biocultural diversity concept recognizes enhanced multidimensional relationships between people and the environment. A good overview of this concept can be found in Buizer, Elands, & Vierikko's 2016 article (see References). The biocultural diversity model helps explain the influences of governance and management diversity on the urban forest. The biocultural diversity model can also account for conflicts that arise from different values amongst various demographics.

For example, we might look to the anecdote of the opposed tree planting in a suburban neighbourhood by a community group that viewed the tree species as a symbol of infertility. Consequently, continued planting of the tree species was greatly opposed. While the ecosystem services model would only present the utilitarian benefits that those trees provided, the biocultural diversity model offers better insight into the dimensions of culture and governance which produced the conflict.

#### Holistic Approach

While the two prior methods incorporate human value (whether quantitative or qualitative) into their perceptions, an alternative is a more holistic approach that recognizes the value of an ecosystem unto itself. This more holistic approach is less of a focus in urban forestry communication, perhaps a result of the inability to evaluate values, limiting its applicability in budgetary decisions.

#### Conclusion

Understanding ecosystem services as a method for determining value derived from maintaining or changing urban ecosystems can help to validate or critique development or use of resources in light of advantageous or net loss tradeoffs. However, it is important to recognize the diversity of values and connections that people hold with urban trees. As arborists and urban foresters, understanding different models for examining urban forest values can help present a more complete picture of human-tree interactions, improving professional competencies.

Author Bio: Alexander Martin, BCMA TCSP is Director of Ironwood Urban Forestry Consulting Inc. and Co-Chair of the Canadian TREE Fund



14		

# Conference Registration is now Open



2022 ISA Prairie Chapter Conference "Managing Growth, Limiting Liability" October 17 – October 18, 2022 St. Albert Inn and Suites - St Albert, AB

# Registration Form

(Please complete one form for each registrant attending)

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Submit articles, ads, letters and written requests to:

#### Keith Anderson

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POWER OUTPUT	4.0 KW			
WEIGHT	5 8 KG/12 8 I B			

1) Weight with powerhead only.





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