

Piping, Light Music - Open

MWPBA #	First Name	Last Name	Total Points
7281	Greg	Abbott	
7202	Michael	Kotch	
7231	Andrew	Lewis	
7126	David	McNally	
7280	Adrian	Melvin	
7280	Adrian	Melvin	
7118	Matt	Pantaleoni	
7287	Tristan	Wilson	
7117	Richard	Winslow	
7244	Neil	Womelduff	
7187	Mark	Wygent	

OUT OF ASSOCIATION:

	Ryan J	Balchuck	
	Katie	Buckland	
	James	Cuthill	
	Andrew	Donlon	
	James	Dyson	
	Alex	Gandy	
	Bruce	Gandy	
	Tyler	Johnson	

Competed:
Pts. Multiplier:

[illegible][illegible][illegible]

					5	
3		3				
1		1			2	
2		2			1	
6					3	

5		4		3
2		5		5
3		2		1

[illegible]

OUT OF ASSOCIATION:			
	Tony	Adkins	
	Shane	Culleton	
	Steven	MacDonald	
	Karen	MacLean	
	Charlie	O'Keefe	
	Blaise	Therlauff	
	Caleb	Thibodeau	
	Laureano	Thomas-Sanchez	

OUT OF ASSOCIATION:

[illegible]

OUT OF ASSOCIATION:

Emmett	Bishop
Tripp	Bishop
Brian	Blankenship
Kevin	Darmadi
Ben	Elliot
Doug	Hamilton
Calum	MacNeil
Harry	McCarthy
Charles	Morris
Jack	O'Connell
Derek	Reed
Andrew C.	Robertson
Alex	Sandridge
Jacob	Shelton
Filemon	Tan
Meredith	Wirth

Competed:
Pts. Multiplier:

[illegible]

OUT OF ASSOCIATION:

	Stephen	Anderson
	Bryce	Boan
	Aedan	Cannon
	Ray	Cincoali
	Anne Marie	de Zeeuw
	Hayden	Faucett
	Larry	Fredericksen
	Anne	Gallo
	Kelly	Henderson
	Duncan	MacDonald
	Calum	Mackinnon
	Mary Beth	Nicholson
	Liam	Nunes
	Jaron	Park
	Jennie	Reynolds
	Sophia	Richter
	Steven	Ricotta
	Linda	Robertson
	Emily	Smith
	Thomas	Stapleton
	Kevin	Watkins
	Duncan	Winters

Competed:
Pts. Multiplier:

[illegible]

A 10x10 grid of 100 squares. The numbers are arranged as follows:

3									
4	2	6	1	5					

OUT OF ASSOCIATION:			
	Marleen	Baile	
	Libby	Guyton	
	Isabella	Jackson	
	Matthew	Morrison	
	Lucas	Robinson	
	Kristina	Rodgers	

[illegible]

OUT OF ASSOCIATION:

Competed:
Pts. Multiplier:

OUT OF ASSOCIATION:

Competed:
Pts. Multiplier:

[illegible]

	Desmond	Flynn	
	Benjamin	Johnson	

Pts. Multiplier:

[illegible]

Piping, Piobaireachd - Open

MWPBA #	First Name	Last Name	Total Points
7117	Richard	Winslow	
7118	Matt	Pantaleoni	
7202	Michael	Kotch	
7231	Andrew K.	Lewis	
7135	Scott	McCawley	8
7126	David	McNally	
7187	Mark	Wygent	

OUT OF ASSOCIATION:

	Ryan J	Balchuck	
	Katie	Buckland	
	James	Cuthill	
	Andrew	Donlon	
	Alex	Gandy	
	Bruce	Gandy	
	Tyler	Johnson	
	Kate	Kimove	
	Alastair	Murray	
	Mary	Wallace	
	Jack	Williamson	

Completed:

Pts. Multiplier:

Alma	Chicago	WI	St. Louis
Piob	Piob	Piob	Piob
10	6		
CS 2	CS 2	CS 2	CS 2
Plc Pts	Plc Pts	Plc Pts	Plc Pts
	3 8		

	6		
5			
	4		
	1		
4			
2			
1			
6			
3			
	2		
	5		

Piping, Piobaireachd - Grade 1

MWPBA #	First Name	Last Name	Total Points
7221	Michael	Breidenbach	
7113	Robert	Dropleman	
7327	David	Goodman	4
7172	Brian	Green	
7357	Griffin	Hall	8
7211	Bonnie	Hamilton	
7186	Joseph	Horwath	4
7219	Tony	Karcz	8
7101	Angus	Martin	
7208	Nicholas	Monin	
7228	Keith	Murphy	2
7350	Christian	Rhoads	14
7161	Tak	Tang	7
7192	Campbell	White	
7105	Nathan	Wilds	18

OUT OF ASSOCIATION:

	Laureano	Thomas-Sanchez	

Competed:
Pts. Multiplier:

Alma		
Piob		
4		
CS	2	
Plc	Pts	
3	4	
4	2	
2	6	

MKE	
Piob	
1	
std	1
Plc	Pts
1	1

Chicago	
Piob	
8	
CS	2
Plc	Pts
5	4
3	8
4	6
2	10
6	2

Minnesota	
Piob	
1	
std	1
Plc	Pts
1	1

WI	
Piob	
4	
CS	2
Plc	Pts
3	4
2	6
1	8

IN	
Piob	
2	
std	1
Plc	Pts
2	1
1	2

[illegible][illegible]

1	

1	

Piping, Piobaireachd - Grade 2

MWPBA #	First Name	Last Name	Total Points
7169	Luke	Ashton	2
7169	Ronald	Dymerski Jr	
7209	Joseph	Fischer	19
7170	Michael	Kahan	
7112	Michael	Kazmierski Dunn	8
7127	Robert	Lies	
7133	Steven	MacLeod	
7198	Daniel	Nixon	
7115	Meridith	Richmond	1
7227	Jacob	Schrader	
7265	Kolya	Sier	26
7215	Chandler	Sievwright	
7205	John	Urdiales	10
7106	Lori	Waters	
7188	R. Scott	Wilson	

Completed:
Pts. Multiplier:

Alma	MKE	Chicago	MN	WI	IN	KY	St. Louis
Piob	Piob	Piob	Piob	Piob	Piob	Piob	Piob
8	2	9	1	3			
CS 2	std 1	CS 2	std 1	CS 2	std 1	std 1	CS 2
Plc Pts	Plc Pts	Plc Pts	Plc Pts	Plc Pts	Plc Pts	Plc Pts	Plc Pts
6 2							
4 6	2 1	4 6		1 6			
5 4				2 4			
			1 1				
1 12	1 2	1 12					
2 10							

OUT OF ASSOCIATION:

	Emmett	Bishop	
	Tripp	Bishop	
	Brian	Blankenship	
	Kevin	Darmadi	
	Ben	Elliot	
	Doug	Hamilton	
	Calum	MacNeil	
	Harry	McCarthy	
	Charles	Morris	
	Jack	O'Connell	
	Derek	Reed	
	Andrew C.	Robertson	
	Alex	Sandridge	
	Jacob	Shelton	
	Filemon	Tan	
	Meredith	Wirth	

		5					
3		2					
		3					
		6					

Piping, Piobaireachd - Grade 3

MWPBA #	First Name	Last Name	Total Points
7104	John	Adair	4
7203	Luke	Ashton	
7303	John	Brady	2
7212	Martha	Davis	
7140	Egan	Dickerson	10
7214	Lucas	Greenlee	7
7119	Timothy	Hess	3
7297	Trey	Higgins	4
7167	Wayne	Hoeffler	13
7155	Sydney	Howieson	5
7128	Steve	Kidwell	
7141	Richard	Langer	
7277	Robert	McCallum	
7147	Roger	McCrummen	
7173	Shawn	McDonald	6
7194	Tamara	Miceli	8
7145	Rhys	O'Higgins	32
7121	Mark	Pennings	
7159	Duncan	Petersen-Jones	12
7165	Thomas	Stonehouse	
7108	Steven	Stuart	
7142	Mark	Waymack	12
7153	Jayne	White	
7151	Jake	Worth	

Competed:

Pts. Multiplier:

Alma		MKE		Chicago		MN		WI		IN		KY		St. Louis	
Piob		Piob		Piob		Piob		Piob		Piob		Piob		Piob	
11		9		14		4		9		3		4		4	
CS	2	std	1	CS	2	std	1	CS	2	std	1	std	1	CS	2
Plc	Pts	Plc	Pts	Plc	Pts	Plc	Pts	Plc	Pts	Plc	Pts	Plc	Pts	Plc	Pts
								5	4						
		6	1			4	1								
2	10														
5	4	4	3												
													</		

OUT OF ASSOCIATION:

	Stephen	Anderson	
	Anne Marie	de Zeeuw	
	Larry	Frederiksen	
	Anne	Gallo	
	Kelly	Henderson	
	Mary Beth	Nicholson	
	Duncan	Winters	

						1		
						2		
					2	3		
4		5						
3								
4		1						
1								

OUT OF ASSOCIATION:

Competed:
Pts. Multiplier:

Snare, Light Music - Open

MWPBA #	First Name	Last Name	Total Points
7333	Cameron	Bolley	24.0
7298	James	Enright Jr	10.0
7190	Hunter	Gullickson	6.0
7321	David	Hickling	8.0

OUT OF ASSOCIATION:

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Competed:

Pts. Multiplier:

Alma			
MSR		H/J	
3		3	
CS	2	CS	2
Plc	Pts	Plc	Pts
1	6	1	6
3	2	3	2
2	4	2	4

Chicago			
MSR		H/J	
3		3	
CS	2	CS	2
Plc	Pts	Plc	Pts
1	6	1	6
2	4	3	2
3	2	2	4

Wisconsin			
MSR		H/J	
CS	2	CS	2
Plc	Pts	Plc	Pts

St. Louis			
MSR		H/J	
CS	2	CS	2
Plc	Pts	Plc	Pts

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OUT OF ASSOCIATION:

	Ben	Elkins	
	Isabella	Jackson	
	Matthew	Niblock	
	Matthew	Page	

[illegible]

The figure consists of 10 4x4 grids arranged horizontally. Each grid represents a snapshot of a 2D Ising model at a specific time step. The spins are represented by black (up) and white (down) squares. The sequence shows the initial state with a single black spin at (1,1), followed by its growth and the formation of clusters over time.

	Paul	Arsenault	
	Madelyn	Neil	

Pts. Multiplier:

[illegible]

OUT OF ASSOCIATION:

	Chandler	Anderson	
	James	Berry	
	Ken	Decker	
	Mark	McClellan	
	Nicholas	Moore	
	Chris	Pierce	

Pts. Multiplier:

[illegible]

The figure displays a sequence of 10 5x5 grids, each representing a snapshot of a 2D Ising model at a different time step. The grids show the spatial distribution of spins, with black squares indicating 'up' spins and white squares indicating 'down' spins. The sequence begins with a single black spin at the top-left corner (1,1) in the first grid. As time progresses, the cluster of black spins grows and evolves. Some grids contain numerical values in specific cells, which likely represent a metric such as the local order parameter or a related quantity. The sequence ends with a more complex, interconnected cluster of black spins in the tenth grid.

OUT OF ASSOCIATION:

	Euan	Rae	
	Helen	Gallo	

Pts. Multiplier:

Finals				Alma				Milwaukee				Chicago				Minnesota				Wisconsin				Columbus, IN				Central KY				St. Louis			
MSR				2/4				2/4		6/8		2/4		6/8		2/4		6/8		2/4		6/8		2/4		6/8		2/4		6/8					
1				3				4				4				4		1		3		1		1											
2	std	1		CS	2			std	1	std	1	CS	2	CS	2	std	1	std	1	CS	2	CS	2	std	1	std	1	CS	2	CS	2				
3	Plc	Pts		Plc	Pts			Plc	Pts	Plc	Pts	Plc	Pts	Plc	Pts	Plc	Pts	Plc	Pts	Plc	Pts	Plc	Pts	Plc	Pts	Plc	Pts	Plc	Pts	Plc	Pts				
4								2	3																										
5																																			
6																																			
7																																			
8																																			
9																																			
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39																																			
40																																			
41																																			

Figure 1 illustrates the steps of the bubble sort algorithm on an array of 5 elements. The array is represented by a row of 5 boxes. Shaded boxes indicate elements being compared or moved. Arrows indicate the direction of movement.

- Step 1: Compare 1 and 2.
- Step 2: Swap 1 and 2.
- Step 3: Compare 2 and 3.
- Step 4: Swap 2 and 3.
- Step 5: Compare 3 and 4.
- Step 6: Swap 3 and 4.
- Step 7: Compare 4 and 5.
- Step 8: Swap 4 and 5.
- Step 9: The array is sorted.
- Step 10: The array is sorted.

OUT OF ASSOCIATION:

	Sam	Johnson	
	Taylor	Page	

Pts. Multiplier:

[illegible]

Tenor, Intermediate

MWPBA #	First Name	Last Name	Total Points
7171	Courtney	Green	12
7320	Grace	Keppel	
7146	Kiera	O'Higgins	10

OUT OF ASSOCIATION:

	Fiona	Conway	
	Chella	Glennon	
	Betsy	Hiner	
	Dawn	Meade	
	Elizabeth	Morgan	

Competed:
Pts. Multiplier:

Finals	Alma	MKE	Chicago	MN	WI	IN	KY	St. Louis
MSR	MSR	MSR	MSR	MSR	MSR	MSR	MSR	MSR
std	2	1	6	1	1			
Plc	CS	std	CS	std	CS	std	std	CS
Pts	2	1	2	1	2	1	1	2
	Plc	Plc	Plc	Plc	Plc	Plc	Plc	Plc
	1		3					
	4		8					
		1	4	1	1			
		1	6	1	2			

		2							
				6					
				1					
				2					
				5					

Tenor, Novice

MWPBA #	First Name	Last Name	Total Points
7144	Kathryn	Byzewski	7
7131	Katherine	Craig	16
7178	Josie	Glenn	
7182	Grace	Jirsa	20
7229	Sarah	Kamal	19
7184	Linda	Keathley-Stamey	2
7329	Shannon	Miller	
7139	Sonya	Neal	10
7120	Anna	Oyler	
7226	Denise	Palkovich	

OUT OF ASSOCIATION:

	Jennie	Turck	
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Competed:
Pts. Multiplier:

[illegible]

OUT OF ASSOCIATION:

Competed:
Pts. Multiplier:

[illegible]

Bass, Advanced

MWPBA #	First Name	Last Name	Total Points
7354	Cydney	Oakes	4.0
7344	Wendy	Dowell	2.0

OUT OF ASSOCIATION:

	Ben	Elkins	
	Elizabeth	Morgan	

Completed:
Pts. Multiplier:

Finals	Alma	MKE	Chicago	MN	WI	IN	KY	St. Louis
MSR	MSR	MSR	MSR	MSR	MSR	MSR	MSR	MSR
			4					
std 1	CS 2	std 1	CS 2	std 1	CS 2	std 1	std 1	CS 2
Plc Pts	Plc Pts	Plc Pts	Plc Pts	Plc Pts	Plc Pts	Plc Pts	Plc Pts	Plc Pts
			3 4					
			4 2					
			1					
			2					

Bass, Intermediate

MWPBA #	First Name	Last Name	Total Points
7182	Grace	Jirsa	6

OUT OF ASSOCIATION:

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Competed:
Pts. Multiplier:

Finals	
2/4	
std	1
Plc	Pts

Alma	
2/4	
1	
CS	2
Plc	Pts
1	2

MKE	
2/4	
std	1
Plc	Pts

Chicago	
2/4	
1	
CS	2
Plc	Pts
1	2

MN	
2/4	
std	1
Plc	Pts

WI	
2/4	
1	
CS	2
Plc	Pts
1	2

IN	
2/4	
std	1
Plc	Pts

KY	
2/4	
std	1
Plc	Pts

St. Louis	
2/4	
CS	2
Plc	Pts

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Bass, Novice

MWPBA #	First Name	Last Name	Total Points
7184	Linda	Keathley-Stamey	2
7176	Brianna	McDonald	10
7175	Shanna	McDonald	10
7210	E.J.	McNaughton	
7268	Neil	Nelson	
7247	David	Zimmerman	5

OF ASSOCIATION:

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Competed:

Pts. Multiplier:

Finals		Alma		MKE		Chicago		MN		WI		IN		KY		St. Louis	
2/4		2/4		2/4		2/4		2/4		2/4		2/4		2/4		2/4	
		3				3		1		1							
std	1	CS	2	std	1	CS	2	std	1	CS	2	std	1	std	1	CS	2
Plc	Pts	Plc	Pts	Plc	Pts	Plc	Pts	Plc	Pts	Plc	Pts	Plc	Pts	Plc	Pts	Plc	Pts
		3	2														
		1	6			2	4										
		2	4			1	6										
						3	2	1	1	1	2						

MWPBA #	First Name	Last Name	Total Points
7134	Bruce	Davie	5
7266	Robert	Heiss	
7266	Warren	Mays, Jr.	4
7235	Jim	Porter	
7179	Douglas	Weisheit	15

OF ASSOCIATION:

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Competed:
Pts. Multiplier:

Alma	MKE	Chicago	MN	WI	IN	KY	St. Louis
6/8	6/8	6/8	6/8	6/8	6/8	6/8	6/8
1	3	2	1	2	1		
CS	std	CS	std	CS	std	std	CS
Plc	Plc	Plc	Plc	Plc	Plc	Plc	Plc
	3			1			
				4			
	2	2					
1	1	1	1	1	1		
2	3	4	1	4	1		