



Long Path



Volume 21 Issue 1

SEMDXA NEWSLETTER

September, 2003



President's Report

Greeting fellow members! I hope everybody's summer has been spectacular. I am sure it has not been one filled with DX as the bands have been very poor to say the least. Then again that is a good thing because I have been busy with a construction project all summer and unable to monitor the bands.. Gosh I hate work! Now that the project is near the end, I have a few minutes here and there, so I did manage to work a VP9 on RTTY for a new one on that mode. So it has not been a total wash.

I am looking forward to the meeting on September 12th and trading war stories. As far as a presentation, the only thing I was able to come up with is a Power Point presentation sent to me by **CT1EEB** on his trip to East Timor and also the Azores. It is an interesting presentation although it lacks the most important ingredient and that is the speaker.

Jose, **CT1EEB** is affiliated with the United Nations and used to travel quite a bit. Another one of his DX-peditions was to an island off the coast of Cuba. During his stay there, for reasons unknown, he was thrown in jail and was there for two days before he was forced

the country. I wish he could be at the mat the meeting to explain that situation!

Our October and November meetings are already spoken for as Dr. Rick Dorsch, **NE8Z**, will be the speaker at both those meetings. I am presently working on getting **W3UR** (Bernie), Editor of the DX Daily, to one of our meetings and he has agreed but has not specified which month he prefers. He has been to several countries during DX-peditions and it was a pleasure to speak with him about his experiences.

I met Bernie the first time in Dallas along with Tom Christian (ex **VR6TC**) and we had a great time over some refreshments. I am sure if I can get him to come it will be a fun-filled evening.

I am looking forward to our September meeting and hope to see you all there. *Bring your checkbooks and/ or cash along and get your dues up to date.*

73, **K8SIX**

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## June Minutes

Minutes of the June, 2003 **SEMDXA** Meeting.

Meeting called to order at 8:07 PM by President, **K8SIX**. Eighteen members and guests attending.

Treasurer **N8CQA** reported a balance of \$693.14. Secretary's report as printed in the Association's newsletter, the **Long Path**.

**W8LU** is looking for a section of Rohn 25 Tower plus help putting it up on top of 20 additional feet of tower.

Tonight's program features our own Uli, **KK8I / DL2HBX**, showing and telling us about the **CN8WW** multi-multi station in the CQ WW SSB Contest in 2000. The Bavarian Contest Club provided man power and funds to the tune of \$12,000.00 to try to beat the world record. Each members share amounted to about \$1,500.00.

## SEMDXA CLUB OFFICERS

*President:* Al Bailey, **K8SIX**

*Vice-president:* John Millet, **K8JM**

*Treasurer:* Buck Switzer, **N8CQA**

*Secretary:* Stan Arnett, **AC8W**

*Director:* Ted Pauck, **K8NA**

*Web Site Editor:* Ken Schang, **W8LU**

*DXCC Checker:* Bill Jones, **N8KF**

*DXCC Checker:* S.Arnett, **AC8W**

*VUCC Checker:* Al Bailey, **K8SIX**

*CQ Checker:* Mike Rudzki, **N8MR**

*CQ Checker:* Al Bailey, **K8SIX**

*Program Chairman:* Vacant

*LP Publisher:* Gerry Fasse, **W8GF**

The Club purchased a truck (which they later sold) to move ten tons of equipment from Germany to Morocco. A convoy of vehicles took equipment and several members flew down to meet the gear. Help was provided by the military and some towers were rented for the event. A very extensive antenna farm was constructed on the beach near the hotel they operated from. The truck was also used by some additional station setups.

Two operators per band meant they used a run station plus a spotting station to pass multipliers. Again, the goal was 100 Million points, but it became apparent after the first day of the contest that this goal would not be reached due to poor band conditions.

After the contest the gear was brought back by truck and most was auctioned off to help defray expenses. Uli commented that it was a great experience, but that it would be hard to put together such an effort in the near future.

Meeting adjourned at 9:05 PM.

AC8W, Secretary



## DX Prospects

Anyone listening on the HF bands these past few months would have to agree, propagation was about as poor as it can get. Morning DX to the Far

East, late afternoon DX to South America and Africa and those transpolar openings in the late evenings were nearly nil! Examining WWV propagation data during this period reveals all. "A" indices in the 25 to 40 range and "K" indices frequently topping 5 or more tell the story. This is typical during the period after sunspot maximum and further amplified by the northern hemisphere summer DX-doldrums. You can expect similar conditions to continue for the next year or two. A substantial decline in sunspot activity, which is also occurring at the moment, will further depress propagation on the bands above 20 meters. On the bright side however, 80 and 160 meters propagation should gradually improve as sunspot minimum approaches. 20 and 40 meter propagation will offer the best DXing opportunities (20 meters was often called "old pro 20" because of its inherent DXing reliability). We will likely see a return of those exotic early winter, late afternoon long path openings to the far east on 40 meters.

Six meter Es openings were plentiful during the early summer months. Several European and North African openings took place including a three-hour-long opening between grid EN82 (ours) and Mauritania. **5T6M** manned by slick operating **ON4ANT** managed nearly 300 QSOs with state-siders. A very rare catch indeed on six meters!

This month's DX menu includes an all Japanese group operating from Sri Lanka (**4S7**). Bands include 6 meters through 160 and is scheduled to take place between September 13 and 18. For schedules you may communicate via their website **JQ3DUE@JARL.COM** QSL as directed by individual operators.

Sri Lanka is located in Zone #22 (CQ WAZ) and is considered a propagational polar path with a beam heading of 21° (from Southeast Michigan). Checking with W6EL's prediction software indicates that 20 meters will be your best bet with propagation expected between

12:30 and 22:30Z and peaking around 15:00Z. A possible 17 meter opening can occur around the time that 20 meters peaks. No openings are expected on higher bands.

Possible openings on 80 meters might occur between 22:30 and 00:30Z. Possible 40 meter openings could happen a bit earlier and continue later. Being a polar-path, signal-killing absorption is more likely if disturbed conditions exist. Let's hope for K indices of 2 or less!

A Norwegian team will be operating from Market Reef (**ØJ0**) September 19 through 26. This is to be an all-band effort including six meters and RTTY. QSL together with two green stamps or one IRC via **LA9VDA**.

Good luck!

**W8GF**



## Dues are Due!

As our President has indicated in his column this month, club membership fees are due this month (September). A form is included with this *Long Path* issue. Follow the instructions and bring either cash or your checkbook to the September 12th meeting. Keep in mind that our meeting-night programs are fueled by membership dues. Very little Treasury money is spent otherwise!

## BPL!

The following item was received from Jim Weaver, K8JE our Great Lakes Rep with the ARRL. In it, he describes the most serious threat to ham radio as we know it in many years - perhaps of all time! By the time you read this item, it will be too late to file comments with the FCC in this connection. However, you can surely help by supporting the ARRL in their effort to defeat this most ominous threat.

*Don't a mistake and underestimate the will and the resources of the Power Distribution Industry. They want Broadband over Power Lines (BPL). They see dollar signs floating around. They want it and can taste the profit! They want to put Internet connections into every room in every building throughout this country. They want to run Internet signals through every power line in the country to achieve their goal. In short, they are willing to disrupt nearly every radio service that operates between 2 MHz and 80 MHz and put them out of business for practical purposes.*

*Moreover, the chairman of the FCC personally wants BPL. Upon announcing the petition from the power companies, he did everything but take his pen from shirt pocket, and fill out and sign the Notice of Rule Making that would permit BPL. What can we do?*

*At the conclusion of WRC-03, I mentioned that delegates and observers of this treaty conference were literally shaking their heads in disbelief that we Amateur Radio operators could muster enough clout to move the International Broadcasts out of 40 meters. It is now the turn of the power distribution industry to marvel at what we can do.*

*Thanks to the support of so many ARRL members and the leadership of President Haynie and key staff members, the power companies have begun pointing their collective finger at ARRL and hams, identifying us as the people they have to beat. They acknowledge they are in for a tough fight. Let's give them this tough fight along with a knockout punch.*

*With your active involvement in the FCC hearing on BPL as well as your financial contributions, we can win this uphill battle. In Washington, DC and its surroundings, numbers talk! These are: 1) Numbers of people who on record for or against something. 2) Numbers of dollars that enable us to travel to talk with FCC personnel, with legislators, with key people in industries that would be impacted (negatively, in the case of BPL) to urge them to act to our mutual benefit.*

*Please understand that if BPL goes through in its present form, we may as well sell our equipment that operates between 2 and 80 MHz. The victory we just achieved on 40 meters will have been wasted. We won't be able to use it, or 80 meters, or 60 meters or 30 meters, or 17 meters, or 15 meters, or 12 meters or 10 meters, or 6 meters. I for one, like to operate 160 meters as well as 2 meters, 1-1/4 meters and 70 cm, but I'd surely hate to lose everything in between because of an ill-conceived, ill-developed and ill-approved feel-good application of technology.*

*FYI, the directors and specific officers of ARRL will meet in St. Louis in a few weeks to develop Strategic Planning for ARRL. I suspect we'll end up with a "5-year" plan of sorts of major items for the League to pursue. If you have any suggestions of MAJOR actions, you'd like to suggest, e-mail these to me at **K8JE@ARRL.ORG***

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BPL Notes

Follow excerpted from ARRL Newsletter dated August 15, 2003.

Over the past six weeks, donations from ARRL members and friends have built a war chest to assist in the League's fight against efforts to implement Broadband over Power Lines (BPL) technology. ARRL Chief Development Office Mary Hobard, K1MMH, reports that the Spectrum Defense Special Campaign so far has raised approximately \$225,000.00 from more than 4,200 donors.

"As Amateur Radio meets the most serious threat to our service in decades, the generosity of ARRL members, clubs and advertisers is making a tremendous difference, enabling ARRL staff and leadership to take all needed steps in this campaign," said Hobart. "The ARRL's effort against BPL would not be able to go forward in the coming months without the generous, voluntary contributions of supporters."

Funded by the special campaign fund, the ARRL Laboratory staff continues to prepare technical reports for official filings. Information and data gathered to date include calculations of the interference levels that radio amateurs can expect from BPL. These calculations were included in the 120-page filing ARRL submitted to the FCC in July. Since then, actual field measurements have been taken at four BPL trial sites in Pennsylvania, Maryland and New York. The ARRL also documented the interference in a dramatic video available via the ARRL web-site.

All concerned Radio Amateurs should consider making a contribution to the BPL war chest. Check the ARRL web-site for more details.

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# SEMDXA MEMBERSHIP RENEWAL

## South Eastern Michigan DX Association (SEMDXA)

Date: \_\_\_\_\_

Application for new membership \_\_\_\_\_ or Application for renewal \_\_\_\_\_ (check one)

Full membership \_\_\_\_\_ or Associate membership \_\_\_\_\_ (check one) Dues: \$15.00 annually

(See SEMDXA website for membership requirements)

Present Call Sign: \_\_\_\_\_ Previous Call Sign: \_\_\_\_\_

Name: \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_

State/Zip Code: \_\_\_\_\_

Telephone: \_\_\_\_\_

E-mail address: \_\_\_\_\_

***MAKE CHECK PAYABLE TO SEMDXA***

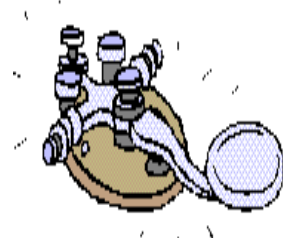
***Make payment at next SEMDXA meeting or mail with remittance to:***

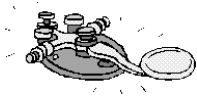
***Leon Switzer, Treasurer***

***427 Jeffrey Avenue***

***Royal Oak, Michigan 48073***

***NOTE: TO RECEIVE THE CLUB NEWSLETTER "THE LONG PATH" YOU MUST PROVIDE YOUR E-MAIL ADDRESS!***


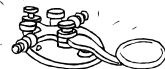






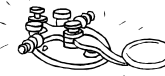
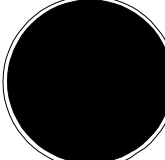




# September 2003

## SEMDXA Monthly Planner



| Sunday                        | Monday                                                                                                                                | Tuesday                                                                                                           | Wednesday                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Thursday                                                                                                                     | Friday                                                                                                                    | Saturday                                                                                                                       |        |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |         |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
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|                               | <b>1</b><br><br>Labor Day<br><b>MI QRP CW Sprint</b> | <b>2</b>                                                                                                          | <b>3</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>4</b><br><br><b>W1AW Qualifying Run</b> | <b>5</b>                                                                                                                  | <b>6</b><br><b>AA DX SSB Test</b><br>First PSK63 Test<br>IARU SSB Field Day<br>NA CW Sprint                                    |        |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |         |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| <b>7</b><br>Grandparents' Day | <b>8</b>                                                                                                                              | <b>9</b>                                                                                                          | <b>10</b><br><br>Full Moon                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <b>11</b>                                                                                                                    | <b>12</b><br><br><b>SEMDXA Meeting</b> | <b>13</b><br><b>ARRL VHF QSO Party</b><br>LA/TN QSO Party<br>NA SSB Sprint<br><b>WAE DX SSB Test</b><br>YLRL Howdy Days CW/SSB |        |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |         |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| <b>14</b>                     | <b>15</b>                                                                                                                             | <b>16</b>                                                                                                         | <b>17</b><br><br>Constitution Day<br><br><b>W1AW Qualifying Run</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <b>18</b>                                                                                                                    | <b>19</b><br><br>POW/MIA Day         | <b>20</b><br>ARRL UHF Test<br>Collegiate QSO Party<br>Fall QRP Homebrew Test<br>QRP Afield<br>SC QSO Party<br>Scand CW Test    |        |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |         |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| <b>21</b>                     | <b>22</b>                                                                                                                             | <b>23</b><br><br>Autumn Begins | <b>24</b><br><br><b>K6YR West Coast Qualifying Run</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <b>25</b>                                                                                                                    | <b>26</b><br><br>New Moon            | <b>27</b><br>AR/TX/AL QSO Party<br>CQ WW RTTY Test<br>Rattletap CW Test<br>Rosh Hashanah                                       |        |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |         |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| <b>28</b><br>Classic Exchange | <b>29</b>                                                                                                                             | <b>30</b>                                                                                                         | <table border="1"> <thead> <tr> <th colspan="7">August</th> </tr> <tr> <th>S</th> <th>M</th> <th>T</th> <th>W</th> <th>T</th> <th>F</th> <th>S</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1</td> <td>2</td> </tr> <tr> <td>3</td> <td>4</td> <td>5</td> <td>6</td> <td>7</td> <td>8</td> <td>9</td> </tr> <tr> <td>10</td> <td>11</td> <td>12</td> <td>13</td> <td>14</td> <td>15</td> <td>16</td> </tr> <tr> <td>17</td> <td>18</td> <td>19</td> <td>20</td> <td>21</td> <td>22</td> <td>23</td> </tr> <tr> <td>24</td> <td>25</td> <td>26</td> <td>27</td> <td>28</td> <td>29</td> <td>30</td> </tr> <tr> <td>31</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th colspan="7">October</th> </tr> <tr> <th>S</th> <th>M</th> <th>T</th> <th>W</th> <th>T</th> <th>F</th> <th>S</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td>1</td> <td>2</td> <td>3</td> <td>4</td> </tr> <tr> <td>5</td> <td>6</td> <td>7</td> <td>8</td> <td>9</td> <td>10</td> <td>11</td> </tr> <tr> <td>12</td> <td>13</td> <td>14</td> <td>15</td> <td>16</td> <td>17</td> <td>18</td> </tr> <tr> <td>19</td> <td>20</td> <td>21</td> <td>22</td> <td>23</td> <td>24</td> <td>25</td> </tr> <tr> <td>26</td> <td>27</td> <td>28</td> <td>29</td> <td>30</td> <td>31</td> <td></td> </tr> </tbody> </table> |                                                                                                                              |                                                                                                                           |                                                                                                                                | August |  |  |  |  |  |  | S | M | T | W | T | F | S |  |  |  |  |  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 |  |  |  |  |  |  | October |  |  |  |  |  |  | S | M | T | W | T | F | S |  |  |  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 |  |
| August                        |                                                                                                                                       |                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                              |                                                                                                                           |                                                                                                                                |        |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |         |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| S                             | M                                                                                                                                     | T                                                                                                                 | W                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | T                                                                                                                            | F                                                                                                                         | S                                                                                                                              |        |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |         |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
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| 3                             | 4                                                                                                                                     | 5                                                                                                                 | 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 7                                                                                                                            | 8                                                                                                                         | 9                                                                                                                              |        |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |         |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| 10                            | 11                                                                                                                                    | 12                                                                                                                | 13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 14                                                                                                                           | 15                                                                                                                        | 16                                                                                                                             |        |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |         |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| 17                            | 18                                                                                                                                    | 19                                                                                                                | 20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 21                                                                                                                           | 22                                                                                                                        | 23                                                                                                                             |        |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |         |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| 24                            | 25                                                                                                                                    | 26                                                                                                                | 27                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 28                                                                                                                           | 29                                                                                                                        | 30                                                                                                                             |        |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |         |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| 31                            |                                                                                                                                       |                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                              |                                                                                                                           |                                                                                                                                |        |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |         |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| October                       |                                                                                                                                       |                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                              |                                                                                                                           |                                                                                                                                |        |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |         |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| S                             | M                                                                                                                                     | T                                                                                                                 | W                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | T                                                                                                                            | F                                                                                                                         | S                                                                                                                              |        |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |         |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
|                               |                                                                                                                                       |                                                                                                                   | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 2                                                                                                                            | 3                                                                                                                         | 4                                                                                                                              |        |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |         |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| 5                             | 6                                                                                                                                     | 7                                                                                                                 | 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 9                                                                                                                            | 10                                                                                                                        | 11                                                                                                                             |        |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |         |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| 12                            | 13                                                                                                                                    | 14                                                                                                                | 15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 16                                                                                                                           | 17                                                                                                                        | 18                                                                                                                             |        |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |         |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| 19                            | 20                                                                                                                                    | 21                                                                                                                | 22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 23                                                                                                                           | 24                                                                                                                        | 25                                                                                                                             |        |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |         |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| 26                            | 27                                                                                                                                    | 28                                                                                                                | 29                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 30                                                                                                                           | 31                                                                                                                        |                                                                                                                                |        |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |  |  |  |  |         |  |  |  |  |  |  |   |   |   |   |   |   |   |  |  |  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |